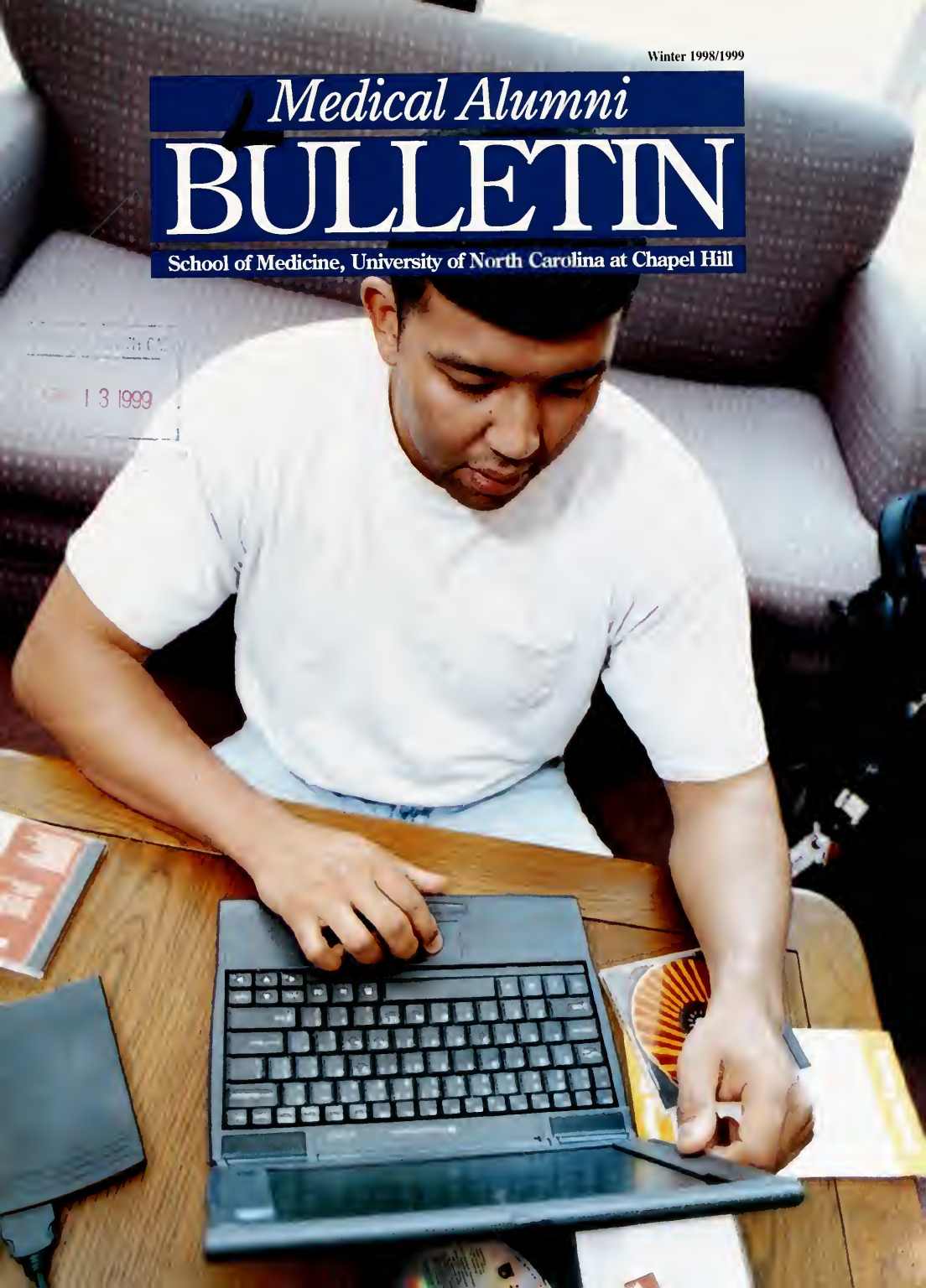
Winter 1998/1999

Medical Alumni BULLETIN

School of Medicine, University of North Carolina at Chapel Hill

1 3 1999



Dean's Page

Consensus statement, as revised to reflect respondents' comments:

The mission and purpose of the ideal public medical school of the 21st century is to serve the needs of the people of the state and beyond through education, clinical service, and research. This should be accomplished by providing education to meet health workforce needs; all levels of clinical care; the most advanced diagnostic and therapeutic services through multidisciplinary clinics; and leadership and vision for addressing the state's existing and future healthcare needs.

The ideal medical school provides the most well-rounded and useful education of students whose interests and backgrounds reflect the diversity of the population. The flexible curriculum focuses on developing in students the skills and attitudes that will enable them to become physicians who provide universally high-quality medical care. While the traditional basic and clinical sciences are essential, physicians in the 21st century will need to be kept abreast of changing medical technology, current medical business practices, and the ever-increasing role of ethics in medicine. The faculty in the ideal medical school are passionate about their work and committed to the school and its mission. The school encourages and emphasizes interdisciplinary endeavors, including both clinical work with non-physician health care professionals and academic work involving a broad array of faculty, schools, and departments across the university. The school also emphasizes continuing education through existing structures such as AHEC and by increased support for community preceptors.

The model public medical school also provides comprehensive, up-to-date clinical care, from primary to tertiary. The institution also has a responsibility to

Continued on page 11

At the 1997 Fall Meeting of the Medical Faculty, I invited faculty and alumni to join me in defining the model public medical school. This initiative was driven by the convergence of many factors—including the ongoing transformation of the American health care system, advances in medical science, and changing demographics—bringing enormous new pressures to bear on medical education. While all medical schools must respond to these pressures, state-supported schools must consider their special responsibilities as public institutions. The question that faces us is how best to define, organize, and position our institution as we enter the 21st century.

To answer this question, I organized a structured Delphi process, a group communication technique for pooling expert opinion and judgment to address a complex issue. The method uses a series of questionnaires (in this case, two) to aggregate the views of respondents, with each successive questionnaire feeding back previous responses and allowing respondents to evaluate their individual and collective opinions and move toward consensus. The project was coordinated by Dr. Carol Tresolini, director of the Office of Educational Development.

The first stage of the Delphi process began with a single open-ended question: Taking into consideration the demographic, economic, and political factors affecting medical education, what should be the primary characteristics and functions of a model public medical school at the beginning of the 21st century?

This question was mailed to more than 2,200 faculty and alumni, including all on-campus and AHEC faculty, 500 community faculty, and 600 randomly selected alumni. The 498 responses I received to this mailing were notably thoughtful and extensive.

Initially, qualitative analysis of these narrative responses indicated broad consensus regarding institutional mission, education, research, clinical service, and administrative structure (see sidebar). Closer examination, however, revealed

little agreement on specific ways in which these broad areas should be made manifest. For example, many indicated that a central mission of the medical school is to provide health care to the citizens of the state; however, opinions on the specific forms this health care should take vary widely.

To reflect this duality—consensus with disagreement—the second Delphi questionnaire included both a summary of areas of consensus and a list of ideas in contention. I asked the same 2,200 faculty and alumni to comment on the consensus statement and to rate their level of agreement with each contested statement.

More than 800 responded, including half of all on-campus and AHEC faculty. More than half of the respondents either agreed with the consensus statement or did not comment. The remaining respondents focused on refining the statement and included several themes: (1) the school's primary mission should be the full continuum of education, (2) the medical school's reach should not stop at the borders of the state but extend nationally and internationally, (3) not only the impact of disease but also the enhancement of health should be the focus, and (4) value in health care should be conceptualized not as a matter of dollars only, but rather as a complex matrix that includes

Continued on page 11

Medical Alumni BULLETIN

School of Medicine, University of North Carolina at Chapel Hill

Medical Alumni Association Officers

President
James D. Hundley, MD '67
Wilmington

President-Elect
Gordon B. LeGrand, MD '65
Raleigh

Vice President
Paul E. Viser, MD '84
Clinton

Secretary
Ralph L. Wall Jr., MD '78
Winston-Salem

Treasurer
Thomas J. Koontz, MD '66
Winston-Salem

Editorial Staff

John W. Stokes
Director, Institutional Relations

Susan Vassar King
Managing Editor

Robin C. Gaitens, Leslie Lang, Edward A. Norfleet, MD, Debra Pierce, Ginger Travis
Contributing Writers

Dan Crawford (pgs. 2, 3, 9, 25, 26, 29, 30, 32)
Jay Mangum (pgs. 10, 12)
Photographers

The *Medical Alumni Bulletin* is published four times annually by the UNC-Chapel Hill Medical Alumni Association, Chapel Hill, NC 27514. Postage is paid by the non-profit association through U.S. Postal Permit No. 24. Address correspondence to the editor, Office of Medical Center Public Affairs, School of Medicine, CB#7600, University of North Carolina, Chapel Hill, NC 27514.

Contents

Features

Dr. Fordham on Leadership 8

Faculty Profile: William Garrett, MD, PhD 10

New Evidence for Growth Factor in Crohn's Disease 12

UNC Initiates Biomedical Liver Treatments 14

Fishing Around Aquascogoc in Search of the 'Lost Colony' ... 15

Planning a Gift — It's Always the Right Time 20

Departments

Dean's Page ..... Inside Front Cover

News Briefs 2

Research Briefs 4

Faculty Notes 5

Alumni Notes 18

Development Notes 22

Report to Donors 23

President's Letter ..... Inside Back Cover

CME/Alumni Calendar ..... Back Cover

On the Cover: The latest nutrition research is more accessible than ever for Carolina's first- and second-year medical students. They can meet patients, interact with specialists, and examine tissue samples. They can learn about diet and its impact on diseases like diabetes and cancer. All they need is a laptop computer and the new CD-ROM created for the Nutrition in Medicine Curriculum Initiative, a project spearheaded by Steven Zeisel, MD, PhD, professor and chair of nutrition. For more information about this project, visit www.unc.edu/news/newsserv/univ/cdrom.html, or contact Zeisel at steven_zeisel@unc.edu or 800-862-6264. *Photo by Dan Sears.*

News Briefs

Seventy-eight UNC physicians named 'best in America'

Seventy-eight physicians from UNC are among the 1998-1999 "Best Doctors in America©," based on a survey by Woodward/White, Inc.

In alphabetical order according to department or division, those listed included: from *Anesthesiology* – Philip G. Boysen; *Cardiology* – Sidney C. Smith Jr.; *Digestive Diseases* – Eugene M. Bozymski, Douglas A. Drossman, William D. Heizer, Kim Isaacs and R. Balfour Sartor; *Dermatology* – Robert A. Briggaman, Jo-David Fine, Stanley B. Levy, Daniel P. McCauliffe and Clayton E. Wheeler Jr.; *Endocrinology* – David A. Ontjes; *Family Medicine* – G. Patrick Guiteras, Robert E. Gwyther, Kenneth G. Reeb and Philip D. Sloane.

From *Infectious Diseases* – Charles M. van der Horst; *Hematology-oncology* – Harold R. Roberts and Gilbert C. White II; *Medicine* – Jan Busby-Whitehead, Timothy S. Carey, M. Andrew Greganti, John Stephen Kizer, Timothy H. Smelzer, P. Frederick Sparling and Mark E. Williams; *Nephrology* – Ronald J. Falk; *Neurology* - Robert S. Greenwood, Colin D. Hall and James F. Howard Jr.

From *Obstetrics and Gynecology* – Watson A. Bowes Jr., Robert C. Cefalo, Nancy C. Chescheir, William Droegemueller, Wesley C. Fowler Jr., Bruce A. Lessey and John M. Thorp Jr.; *Ophthalmology* – Kenneth L. Cohen and Baird S. Grimson; *Orthopaedics* – Gary D. Bos and Timothy N. Taft; *Otolaryngology* – Harold C. Pillsbury III, William W. Shockley and Mark C. Weissler.

From *Pediatrics* – Julie Blatt, William G. Conley III, A. Joseph D'Ercole, Harvey J. Hamrick, Jennifer Lail, Margaret W. Leigh, Melvin D. Levine, Jacob A. Lohr, Desmond K. Runyan and Louis E. Underwood; *Psychiatry* – Jarrett Barnhill, John I. Boswell Jr., Robert N. Golden, John J. Haggerty Jr., Thomas M. Haizlip, Seymour L. Halleck, Jeffrey A. Lieberman and Gary Peterson; *Pulmonary Medicine* – James F. Donohue, Michael R. Knowles, Linda J. Paradowski and James R. Yankaskas.

From *Radiology* – Joseph K. T. Lee and William H. McCartney; *Radiation Oncology* – Julian Rosenman and Mahesh Varia; *Surgery* – Anthony A. Meyer; *Thoracic Surgery* – Thomas M. Egan, Peter Starek and Benson R. Wilcox; *Urology* – Culley C. Carson III and Stephen F. Shaban; *Vascular Surgery* – Steven J. Burnham and Blair A. Keagy.

To compile the current database, more than 30,000 doctors throughout the United States were asked to rate the clinical abilities of other doctors in their areas of specialization. Only those physicians who earned the consensus support of their peers were included. The survey is conducted by Woodward/White, Inc. every year.

1998 Faculty Retirees

The School of Medicine honored 1998 retiring faculty at a reception and dinner in the Morehead Banquet room. Here, the camera captured Dr. Jim Bryan, Medicine (left), in a not-too-somber moment with Dean Jeffrey Houpt. Other 1998 retirees included, from Anesthesiology, Dr. Kenneth Levin; from Family Medicine, Drs. Betty Cogswell and Frank Stritter; from Medical Allied Health, Dr. Joyce Sparling; from Medicine, Drs. Frederic Eldridge, Arthur Finn, Henry Lesesne, and Carl Pickard; from Obstetrics-Gynecology, Dr. Robert Cefalo; from Pathology, Dr. William Huffines; from Pediatrics, Drs. Ping-Chuan Hu and Andrew Johnson; and from Surgery, Drs. Floyd Fried and George Johnson.

Cystic Fibrosis Foundation selects UNC to pioneer development of new therapies

Because of its past success in studying and treating the genetic illness cystic fibrosis, the School of Medicine has been selected by the Cystic Fibrosis Foundation as one of seven new Therapeutics Development Centers nationwide.

A five-year, $750,000 foundation award will support work aimed at producing more effective medications. The seven centers will form a clinical research center network where researchers will evaluate the most promising drugs.

Cystic fibrosis is a complex genetic disorder that affects about 30,000 children and young adults in this country. Despite patients' increasing life span, now up to 31.3

years, the illness remains fatal because of progressive lung damage.

UNC physicians, who care for more than 450 CF patients, already have helped explain how the disease starts and progresses and how novel therapies could help them. Current clinical research includes designing and conducting studies of gene therapy and mucus-thinning drugs.

"As a clinician caring for patients with CF, I am delighted that we have this new opportunity to take discoveries about the disease and explore therapeutic approaches," said Michael R. Knowles, MD, professor of medicine and director of the center.

"The key to our combined success will be the dedicated participation by patients who are eager to make a difference for the larger CF community."

Spanish language initiative for health-care workers funded

The North Carolina Area Health Education Centers (AHEC) Program has been awarded a $498,000 grant from the Duke Endowment to fund the AHEC Spanish Language and Cultural Training Initiative: Improving Access and Quality of Care for Latinos in North Carolina. An additional $888,000 is intended for the program over the next three years after an annual approval process.

The Spanish Language Initiative marks a major expansion of AHEC activities and services designed to promote increased Spanish fluency and related cultural competencies for health-care workers in North Carolina.

The training offered through this initiative will be held at multiple sites across the state for clinical and administrative health professionals who are working in North Carolina hospitals, health departments, community health centers, and other health care settings.

For more information, please contact Jacqueline Rollins Wynn at (919) 966-2461.

Rivera delivers Whitehead Lecture

M. Patricia Rivera, MD, assistant professor of medicine in the Division of Pulmonary Medicine, presented "Medicine Is Still A Great Profession" at the 16th annual Whitehead Lecture and Awards ceremony on August 19.

A new student award also was premiered at the event — the James A. Bryan II Award. The award is a tribute to Bryan, professor of medicine, on his retirement. Created by the Class of 1999 and chosen by the Whitehead presidents and Whitehead Council, the award "honors graduating UNC medical students who embody the spirit of Dr. Bryan by improving the medical school community and bettering the educational experience of fellow medical students." Recipients were Oluwatoyin Ajose and Daniel Briggs.

Endowment Fund Grant Recipients Named for 1998-99

Nine members of the School of Medicine family — three faculty members, three postgraduates, and three medical students — have received Medical Alumni Endowment Fund Grants for the 1998-99 academic year.

Grants are funded from interest earned on gifts to the Medical Alumni Endowment Fund. As in recent years, awards of up to $5,000 were available to medical school faculty, and awards of up to $2,000 were available to students and housestaff.

Grant recipients must use the funds during the year of the grant, and must submit a year-end report to the Medical Alumni Endowment Board within 90 days at the end of the grant period.

Faculty recipients are:

- **Julie Blatt, MD**, professor of pediatrics, for "Sex steroind receptors in Hodgkins' Disease."
- **William B. Coleman, PhD**, assistant professor of pathology and laboratory medicine, for "Correction of genetic liver deficiency by transplantation of liver epithelial stem-like cells."
- **Matthew G. Ewend, MD**, assistant professor of surgery in the Division of Neurosurgery and section chief of Neuro-oncology, for "Role of intrinsic CNS cells in immunotherapy for brain tumors."

Resident/fellow recipients are:

- **P.J Hamilton, MD**, Department of Emergency Medicine, for "Advantages of SPECT in detecting regional cerebral perfusion in mild hypothermic selective aortic arch perfusion cardio bypass resusc."
- **Meena Hiremath**, Department of Microbiology & Immunology, for "Relief from disease in the murine model for globoid cell leukodystrophy."
- **Kyle D. Weaver, MD**, Division of Neurosurgery, for "Increased efficacy of chemotherapeutic agents in glioma cell lines by inhibition of nuclear factor kappa B."

Medical student recipients are:

- **Dan Bradford**, Department of Psychiatry, for "Validation of screening questionnaire that determines suitability for referral to a psychiatrist in a homeless population."
- **Greg Buchold**, Department of Medicine, "The expression of cyclin-dependent kinase-inhibitors during murine spermatogenesis."
- **Ralf S. Schmid**, Department of Biochemistry, for "Defining adhesion signaling pathways for axon guidance."

Research Briefs

A sampling of research activity from the UNC medical center. Further details are available from the investigators. E-mail addresses are listed when available, otherwise, all researchers can be reached through the Carolina Consultation Center, (800) 862-6264.

Brain tumor treatment

A drug-impregnated wafer that releases chemotherapy directly to tumors that have spread to the brain from other cancers is now undergoing safety tests in patients.

Results of this multi-center phase I clinical trial may have implications for treatment aimed at prolonging the survival of an estimated 50,000 patients in the United States with brain cancer metastases, according to principal investigator Matthew Ewend, MD, assistant professor of neurosurgery.

Ewend can be reached at <ewend@med.unc.edu>.

St. John's wort and alcohol consumption

Flowers from a plant called St. John's wort, which is used to treat mild to moderate depression, may also reduce alcohol intake in laboratory animals, School of Medicine researchers have discovered. The plant's active ingredient, hypericin, may prove effective in the fight against alcoholism.

"The experiments involved rats that are bred to prefer alcohol. When given a choice, such rats will consume little water, but much alcohol," said Amir H. Rezvani, research associate professor of psychiatry.

He found that rats receiving the St. John's wort compound drank less alcohol, about 50 percent less, than the untreated animals.

The findings were presented to the Research Society on Alcoholism and the International Society of Biomedical Research on Alcoholism. *Rezvani can be reached at <azadi@ med.unc.edu>. Read more at www.unc.edu/news/newsserv/ research/rezani.htm.*

Gene involved in DNA repair

A tumor-suppressor gene involved in breast and ovarian cancer susceptibility plays a central role in one of the body's most important mechanisms for repairing DNA when it becomes damaged, UNC researchers have found.

Using specially altered mouse embryo cells deficient in the gene BRCA1, the scientists, lead by Steven A. Leadon, PhD, professor of radiation oncology, found the gene directly or indirectly participates in what is called transcription-coupled repair.

A report on the research appeared in the Aug. 14 issue of the journal *Science. Read more at www.unc.edu/news/newserv/ research/leadon.htm.*

Molecular key to heart failure

A new study has identified a molecular key to the development of heart failure, the most common form of heart disease.

Researchers led by Howard A. Rockman, MD, associate professor of medicine and pharmacology, prevented heart failure in a strain of mice genetically engineered to develop the disease. They were able to do so by blocking an enzyme, beta-adrenergic receptor kinase, known to be elevated in failing human hearts.

A report on the research appeared in the June 9 issue of the *Proceedings of the National Academy of Sciences.*

Olive oil not a breast cancer protectant

Contrary to earlier reports, oleic acid — the chief fat in olive oil — does not protect women against developing breast cancer, according to a unique new study.

The study involved analyzing fat samples removed from 642 European women, measuring the oleic acid content and comparing the results with whether the women developed breast cancer.

"The bottom line is that the protective effect of oleic acid that has been suggested in other studies, which did not measure fat directly, but relied instead on reports by the women of what they ate, does not exist," said senior author Lenore Kohlmeier, PhD, professor of nutrition.

A report on the findings appeared in the July issue of the *American Journal of Clinical Nutrition. Kohlmeier can be reached at <lkohlmeier@sophia.sph. unc.edu>. Read more at www.unc.edu/news/newsserv/ research/kolmei4.htm.*

Detecting tick-borne disease

In studies on three North Carolina children who contracted a tick-borne infection called ehrlichiosis, including one who died in 1996, Lynn A. Fordham, MD, assistant professor of radiology, has discovered the illness shows up on chest X-rays as increased fluid in the lungs. That finding may help doctors diagnose the condition earlier and, as a result, possibly treat it more effectively.

"Ehrlichiosis is usually mild with flu-like symptoms but can be rapidly fatal," said Fordham. "The infection should be considered when diagnosing acutely ill children with possible tick exposure and X-rays showing increased lung fluids not caused by a heart problem."

A report on the research appeared in the November issue of the *American Journal of Roentgenology. Fordham can be reached at <fordham.rad@mhs.unc.edu>. Read more at www.unc.edu/news/newsserv/research/ fordham.htm.*

First laboratory model for chancroid

Using artificial human skin, School of Medicine researchers have developed the first good laboratory model for chancroid, a sexually transmitted disease that has become an increasingly important health problem because it promotes transmission of the virus that causes AIDS.

In the process, the scientists have identified some early signals that lead to genital ulcers in chancroid, a painful, but curable, disease.

"Chancroid, like syphilis and gonorrhea, makes contracting HIV more likely," said Marcia M. Hobbs, MD, research assistant professor of medicine.

Using their new model, the scientists plan to study the disease further and describe the infectious potential of various bacterial mutants to identify factors important in developing chancroid ulcers, Hobbs said. They model likely will be useful for other skin infections as well.

A report on the work appears in *Infection and Immunity*, a scientific journal of the American Society for Microbiology. *Hobbs can be reached at <mmhobbs@med.unc.edu>.*

Faculty Notes

David C. Lee, PhD, has been named chair of the Department of Biochemistry and Biophysics at the School of Medicine. He has been appointed to a five-year term.

Lee

Lee joined the UNC faculty in 1985 as an assistant professor in the Department of Microbiology and Immunology. He became an associate professor in 1991 and a professor in 1995.

He is program leader for the Cancer Cell Biology program at the UNC Lineberger Comprehensive Cancer Center and in that capacity recently established the Cancer Cell Biology Predoctoral Training Program. Lee also is a leader in the development of core facilities, and currently directs or co-directs the Nucleic Acids, Protein/Peptide and Histopathology Care facilities.

Lee's awards include the Phillip and Ruth Hettleman Award for Scholarly Achievement in 1994 and the Jefferson-Pilot Award for Excellence in Academic Medicine.

He has served since 1994 as a member of the National Institutes of Health Pathology B Study Section.

His research focuses on the role of growth factors and their receptors in normal and cancerous cells. He was involved in early research into the cloning of genes.

Kenneth Moise, MD, has been appointed chief of the Division of Maternal-Fetal Medicine in the School of Medicine.

Moise comes to Chapel Hill from the Baylor College of Medicine in Houston, where he was professor of obstetrics and gynecology and director of the maternal-fetal medicine division. He is a member of the Association of Professors of Gynecology and Obstetrics, the Society for Gynecologic Investigation, the Society for Maternal-Fetal Medicine and several regional medical societies. A contributor to more than 150 articles and books, Moise is also a reviewer for more than a dozen scientific journals, including the *New England Journal of Medicine* and the *American Journal of Obstetrics and Gynecology*.

Last year, *Good Housekeeping* magazine recognized Moise's skill as a physician and named him one of the best doctors in America for women. He also received a "Who's Who in Health and Medical" award in July 1997.

Moise

Moise received his medical degree from Louisiana State University and completed his residency in obstetrics and gynecology at Vanderbilt University Medical Center. He then completed a fellowship in maternal-fetal medicine at Baylor College of Medicine. An active member of the community, Moise has a particular interest in Habitat for Humanity. Prior to his departure from Houston, he completed a "one hundred house blitz" with Habitat's Jimmy Carter Work Project.

Estrada J. Bernard Jr., MD, has been named the Van L. Weatherspoon Jr. distinguished professor of neurosurgery. Bernard joined the UNC faculty in 1990 as an assistant professor, and has been chief of the division of neurosurgery since May 1997.

Bernard

He is a member of the American Association of Neurological Surgeons, the American Medical Association, the Womack Surgical Society, the Southern Medical Association, the North Carolina Medical Society and the Association for Health Services Research.

The Van L. Weatherspoon Jr. Distinguished Professor in Neurosurgery was created by the Massey-Weatherspoon Fund with help from Kay M. and Van L. Weatherspoon Sr. to honor their son, who died of a brain tumor in 1989.

Robert Cefalo, MD, professor of obstetrics and gynecology, has been appointed chair of the American Board of Obstetrics and Gynecology. Incorporated in 1930, the board issues certifications to physicians who demonstrate knowledge and professional competence in obstetrics and gynecology. Duties of the chair include overseeing the board and its evaluations of certification candidates.

Stephen M. Downs, MD, assistant professor of pediatrics, was selected to receive one of 14 Robert Wood Johnson Generalist Faculty Scholar Awards. The awards are intended to help increase the number of generalist physicians, and ultimately

Downs

increase access to primary care. Selected scholars will serve as role models and mentors for medical students considering careers as generalist physicians. The grants will allow the scholars to enhance their research productivity and participate in the design and implementation of primary care education initiatives.

Amelia F. Drake, MD, has been named the Newton D. Fischer distinguished professor in otolaryngology/ head and neck surgery.

Drake

Drake joined the UNC faculty in 1988 as an assistant professor of surgery. Since 1989 she has held joint appointments as an assistant professor, then as an associate professor, in surgery and pediatrics.

Her research, which includes a grant from the American Lung Association of North Carolina, has focused on airway problems in children. In recognition of her work, she was elected to the American Laryngological, Rhinological and Otological (Triological) Society, the most elite specialty society in otolaryngology/head and neck surgery.

Newton Fischer was the first chair of otolaryngology at UNC, from 1952 to 1981. During his tenure, the division attained national recognition for clinical excellence, training and research. To honor his service to the university, his former residents organized the Newton D. Fischer Otolaryngologic Society in 1986. Members of the society contributed to an endowed professorship, which was established in 1997.

Drake's selection had special meaning to Fischer because Drake, in addition to being the first person honored with the professorship bearing his name, is also his daughter.

William Droegemueller, MD, former chair of obstetrics and gynecology, is author of an article recognized in a landmark collection by the *Journal of the American Medical Association*. The article, "The Battered-Child Syndrome," was republished in the journal's "One Hundred Years of Landmark Articles, Celebrating the Sesquicentennial of the American Medical Association."

Droegemueller

Droegemueller started research for the article as a young medical student. He conducted door-to-door interviews and kept data in a shoe box until colleagues were ready to contribute to the writing. Within four years of the article's original publication on July 7, 1962, all but one state had adopted child abuse reporting statutes.

Droegemueller is the author of more than 100 other works, including the popular textbook "Comprehensive Gynecology." He continues to practice medicine and serve as the director of evaluation for the American Board of Obstetrics and Gynecology.

Beverly Errede, PhD, professor of biochemistry and biophysics, has been elected to the American Academy of Microbiology. The academy is the only honorific leadership group devoted entirely to microbiologists and the science of microbiology.

Errede

More than 1,300 Academy Fellows from more than 27 countries have been elected and each has demonstrated scientific excellence, originality and leadership; high ethical standards; and scholarly and creative achievement. The academy recognizes scientists for distinguished achievements in microbiology and provides microbiological expertise in the service of science and the public.

Matthew G. Ewend, MD, has been named the Van L. and Kay M. Weatherspoon distinguished professor of neurosurgery.

Ewend joined the School of Medicine in 1997 as an assistant professor of neurosurgery; he is currently the section chief of neuro-oncology within the Department of Surgery.

Ewend was the study chair and principal investigator for a clinical protocol titled "Phase II Trial of Surgery with GLIADEL Wafer and Radiation in Patients with Operable CNS Metastasis from Systemic Cancer." He has contributed to numerous publications focusing on cancer research.

As a neuro-oncology fellow at the Johns Hopkins Hospital in Baltimore, Md., Ewend won a National Institutes of Health Research Service Award.

Christopher Fordham III, MD, chancellor emeritus and professor of medicine and social medicine, was one of 40 physicians to receive master status from the American College of Physicians at its 1998 annual meeting in San Diego. The ACP has six classes of membership — medical student, associate, member, fellow, master, and honorary fellow — each reflecting various stages of physicians' careers. An ACP fellow is nominated for master status in recognition of personal character, position of honor and influence, and prominence in practice, medical research, science or the art of medicine.

Fordham

Robert Golden, MD, professor and chair of psychiatry, has been elected to a four-year term on the Part 1 Committee in Psychiatry of the American Board of Psychiatry and Neurology. The committee prepares the questions for Part 1, the written component, of the certification examination in Psychiatry.

Clyde A. Hutchison III, PhD, Kenan professor of microbiology and immunology, has been elected to the American Academy of Arts and Sciences.

Hutchison

Hutchison was one of 146 scholars, scientists and artists nationwide chosen in the 1998 election. He joins two centuries of great minds in the academy, founded during the Revolutionary War by political and intellectual leaders including John Adams and John Hancock to "cultivate every art and science which may tend to advance the interest, honor, dignity and happiness of a free, independent and virtuous people."

The academy honors four divisions of intellectual excellence: physical sciences, biological sciences, social arts and sciences, and humanities and fine arts. There are 4,000 members nationwide, including 160 Nobel laureates and 65 Pulitzer Prize winners. Hutchison also joins more than two dozen living fellows from Carolina.

Originally from New York City and raised in Chicago, Hutchison earned an undergraduate degree from Yale in 1960 and a doctorate from the California Institute of Technology in 1968. He has taught at Carolina since 1968, minus two years as a visiting scientist to the MRC Laboratory of Molecular Biology in Cambridge, England, and a recent stint at the Institute for Genomic Research — better known as TIGR — in Rockville, Md. TIGR made headlines re-

cently by announcing that a collaboration to sequence the human genome was ahead of schedule.

Hutchison's work has led to many breakthroughs in genetic research. In 1995, he was elected to the National Academy of Sciences, one of the highest honors a U.S. scientist or engineer can receive. Later that year, Gov. James B. Hunt presented him the North Carolina Award, the state's highest civilian honor.

Hutchison was inducted formally at an Oct. 3 ceremony at the House of the Academy in Cambridge, Mass.

Jeffrey Lieberman, MD, professor of psychiatry and vice chair of research, received the Alexander Gralnick Award for Research in Schizophrenia from the American Psychiatric Association. This award, established in 1996, honors an individual for his or her overall contributions to research into the discovery and treatment of the earliest signs of schizophrenia.

Linda S. Kinsinger, MD, clinical assistant professor of medicine and associate director of the Preventive Medicine Program, has been elected to the board of directors of the Association of Teachers of Preventive Medicine. The association is dedicated to advancing individual and community health promotion and disease prevention in the education of health professionals. Kinsinger's research focuses on implementing preventive care for adults in community-based, primary care practices.

Carol N. Lucas, PhD, has been reappointed chair of the Department of Biomedical Engineering effective March 1, 1997, for up to seven years.

Lucas

Lucas, who also is a professor of surgery and adjunct professor of material and applied sciences, has chaired the department since 1992 and served as acting chair for the previous two years. A faculty member for 26 years, she teaches courses in digital signal processing, bio-mathematical modeling, hemo-dynamics and finite element analysis.

She currently is principal investigator for a National Institutes of Health study on "The Fluid Dynamics of Right Heart Bypass Options." Her many publications in the field include the 1990 book "Biofluid Mechanics III," which she co-edited.

Lucas recently completed a term as president of the Cardiovascular System Dynamics Society and as a member of the NIH study section on surgery and bioengineering. She serves on the publications board of the *Annals of Biomedical Engineering* and the board of trustees of Dakota Wesleyan University, where she was the Opperman Distinguished Alumni Lecturer in 1995. She also is a fellow of the American Institute for Medical and Biological Engineers.

Christian E. Newcomer, VMD, director, division of laboratory animal medicine, is chair of the Institute for Laboratory Animal Research's Committee on Cost of and Payment for Animal Research. The committee recently reported on "Approaches to Cost Recovery for Animal Research: Implications for Science, Animals, Research Competitiveness, and Regulatory Compliance." The report can be viewed on the ILAR web site at <www2.nas.edu/ilarhome/>.

Barry K. Popkin, PhD, professor of nutrition, received the Kellogg Prize for Outstanding Research in International Nutrition from the Society for International Nutrition Research. The society cited Popkin's productive research career, his devotion to teaching and training and his contributions to institutional development at home and abroad.

Kenneth G. Reeb, MD, has been named the William B. Aycock distinguished professor of family medicine.

Reeb

Reeb has served as professor and chair of the department of family medicine since 1987. His special interests are primary care education, improving access to health care, family aspects of child health and managed care.

Reeb is a diplomat of the American Board of Family Practice and serves as president of the North Carolina Academy of Family Physicians Foundation. He is a member of the American Academy of Physicians, the North American Primary Care Research Group (president 1993-95), the Academic Family Medicine Organization's Legislative Committee, the North Carolina Medical Society's Health Care Access Committee, the Association of the Departments of Family Medicine and the Society for Teachers of Family Medicine.

The William B. Aycock Distinguished Professor of Family Medicine endowment recognizes the distinguished career and service of William B. Aycock, chancellor emeritus and retired Kenan professor of law.

Aycock served the University for nearly 40 years from his first faculty appointment in the School of Law in 1948 to his retirement as Kenan professor in 1985. He was named chancellor in 1957 and led the university in that capacity until 1964.

A 1948 graduate of the School of Law, Aycock was first in his class and editor in chief of the North Carolina Law Review. He also holds a master's degree in history from Carolina.

Howard A. Rockman, MD, associate professor of medicine, has received a $750,000 grant from the Triangle-based Burroughs Wellcome Fund to study promising new molecular strategies for treating congestive heart failure. Rockman is one of 10 physician-scientists in the United States and Canada named a recipient of the fund's Clinical Scientist Awards in Translational Research.

The Burroughs Wellcome Fund established the awards, made for the first time this year, to support physician-scientists conducting clinical research. The awards are intended to strengthen translational research, which describes the two-way communication of information between basic research and the treatment of patients.

David Rubenstein, MD, PhD, assistant professor of dermatology, received the 1998 Leaders Society Clinical Career Development Award from the Dermatology Foundation. The stipend supports training in research skills relevant to dermatology and cutaneous biology.

LinMarie Sikich, MD, assistant professor of psychiatry, received a Young Investigators Award from the National Alliance for Research on Schizophrenia and Depression. Her study will look at the effects of antipsychotic medications on adolescents.

Ronald Strauss, PhD, professor of social medicine and dental ecology, won the 1998 Distinguished Service Award of the American Cleft-Palate-Craniofacial Association. Strauss's research has focused on the social impact of chronic health problems with specific interest in dental conditions, craniofacial abnormalities and HIV/AIDS.

Judith Tintinalli, MD, professor and chair of emergency medicine, has been elected to the Institute of Medicine. Membership is based on professional achievement and demonstrated interest, concern and involvement with problems and critical issues in public health.

Dr. Fordham on Leadership

In March of 1998, Christopher C. Fordham III, MD, former chancellor of UNC-CH and dean emeritus of the School of Medicine, was the featured speaker at the School of Medicine's annual Student Leadership dinner. We are pleased to share his comments on leadership with Bulletin readers.

Mr. Dean, Mr. Chairman, Student Leaders, Faculty Advisors, and dear colleagues all,

It is a real pleasure for Barbara and me to be with you tonight, and I congratulate you all on being part of what has become an important tradition in the School of Medicine. I have been asked to speak briefly about leadership. Since I find it to be a less than simple concept, which means different things to different people and different organizations, I propose to limit myself to comment on what I consider to be key components of leadership — at least components that I have found to be salient in my own personal experiences.

I would begin with the component of ***service orientation***. Real leaders must acknowledge that they are there to serve the constituents and the organization. This service-of-others orientation is truly critical in developing a style which is not self-aggrandizing, which puts the organization and others first, and which lends itself to a participative, rather than an autocratic, type of organization. I am aware that one can argue the point at length, and that perhaps it is a matter of philosophic orientation or even of style. But I strongly favor the participative, service-oriented, respect-all-others approach, and I believe that it is especially suited to the academic world. Indeed, it is essential in the academic world.

A second critical component of leadership is the ***capacity to contribute to cohesiveness*** in the organization; to create a sense of working together rather than a divisive approach. This capacity to be a cohesive influence depends to a large extent on the degree to which the leader is service-oriented and truly respectful of all others. And those individuals who can facilitate genuine cohesiveness in an organization have an opportunity to give it positive and progressive leadership, and to succeed in the process.

A third quality often found in effective leaders is that of ***passion***; a leader must believe in the organization, its mission, its methods and its capacity to serve. Such passion is often translated into an emotional attachment to or with an organization, or an identification with it. Truly great organizations with great traditions like the University of North Carolina and some corporate entities that one can think of have the perhaps not unique, but certainly unusual, quality of encouraging those associated with it to identify with it. Such identification tends to encourage loyalty, a valuable commodity in itself, and lends the opportunity for enthusiastic progress. Passion in leaders is rather easy in truly magnetic organizations, such as this university and this medical school, and it may therefore be rather important what kind of organization one chooses to lead.

Good leaders also often seem to have a ***keen analytical capacity***, a sharpness in understanding issues, problems, opportunities and the capacity to conceptualize and analyze them. Using this analytic and synthetic capacity in a constructive way often derives from the earlier qualities we have discussed and can be immensely helpful to the organization.

Perhaps equally critical and highly desirable, is the ***capacity to articulate effectively*** his or her ideas, analyzes, syntheses, and proposed courses of action. The capacity to articulate ideas in an effective way pertains both to private and public settings. With colleagues, one must be willing to give feedback, and it is helpful if that feedback is clear, reasonably concise and articulate. Along these same lines, genuine empathy is an important quality; the capacity genuinely to empathize with others is truly a caring attribute, one that characterizes many good leaders. And add to that the capacity to listen, which is such as essential part of empathy and effective communication.

These qualities tend to inspire loyalty, a virtue already mentioned.

These then are the components of leadership which I see to be critical: service orientation, a proclivity to cohesiveness, passion, the capacity to conceptualize and analyze, and the capacity to communicate effectively in a variety of settings.

Now a word about the pathway to leadership. How does one come to be a leader? Have leaders really planned their careers to reach leadership roles? I suppose the answer has to be a mixed and uncertain one. My own view of this question is that the pathway to leadership is to be very good at what you do in the service of others and to develop, and be able to effect, the qualities of leadership which I have described.

Campaigning for leadership roles can have mixed results, especially in an academic institution. There, it seems to me, the leadership role tends to be thrust upon those selected by the community rather than offered as a prize to the most effective campaigner. But, one can be open to opportunities when they come along, assess them carefully as to their potential for genuine accomplishment, and enter them, if at all, with enthusiasm, commitment, and above all, a burning desire to serve.

Now, having tried to conceptualize and present the key components of leadership as I have experienced it and sensed it, it occurs to me that there is a striking parallel and similarity in what I have set forth as key components of leadership and what one might construe to be the key elements and characteristics of the good physician, to wit: service orientation, a penchant for cohesiveness, passion about medicine, the capacity to conceptualize, analyze, understand and effectively articulate problems, genuine empathy, and trustworthiness.

Perhaps this does not imply that all physicians are leaders, but it might remind us that society does look to physicians for leadership in the translation of science and technology to effective patient care. I site this parallel because it struck me as fascinating. Perhaps the real meaning of such a parallel, if one truly exists, is to indicate that characteristics of human performance at a high and ef-

Dr. Fordham (left) greets colleagues in leadership at last fall's Berryhill Lecture: Stuart Bondurant (center), dean emeritus, and Joe Grisham, Kenan professor and chair emeritus of pathology, and 1998 Berryhill Distinguished Lecturer.

fective level have a commonality about them, whatever the endeavor or the field.

Finally, since we have talked about leadership, and have encountered the commonality with medicine, permit me to summarize by reading to you a letter which I wrote a Texas sixth grader in response to his classroom query about medicine as a career. The letter reads as follows:

Dear Richard,

Your letter of January 26 just happened to land on my desk, and I am pleased to undertake providing you with an answer.

A career in medicine primarily is a career of providing service to others. One must study and train for years to acquire the knowledge and skills to bring modern medical science and technology to the service of patients. One must learn a great deal of biological science and applied science, as well as technology, to be able to understand human illness, to be able to diagnose it and to be able to treat it. In addition, one must understand patterns of illness in people and populations (epidemiology) so as to assist in the prevention of disease.

In bringing science and technology to the care of patients, on must learn to use fine clinical judgment in working with the patient to decide what and when test and treatment should be done in the patient's behalf. The physician also must be a people-person and learn to communicate effectively and empathetically with patients and their families.

A physician must be a good listener and must care deeply about the well-being of those whom he or she serves. Since the people we serve have become increasingly diverse culturally and ethnically, physicians must be able to understand, appreciate and respect others, whatever their socioeconomic cultural background, and be able to provide caring and effective service to all. So the career of medicine involves a broad range of human attributes and values which must be cultivated over the years of education and training preparatory to entering practice.

Although today's world has tended to commercialize the practice of medicine, the critical qualities described above continue to characterize the good physician. No career of which I am aware gives the individual a greater opportunity to develop skills and acquire knowledge which can be used effectively in the service of others, to make a difference in their lives. The satisfaction which derives from serving others in an effective and meaningful way makes possible genuine fulfillment in life and the profound joy which accompanies it.

Richard, I hope that this rather general and wordy account is helpful to you. It should be clear to you that I highly value the trust that must exist between patient and physician and that that trust is gained by being truly trustworthy. Therein lie many of the human qualities which must accompany the knowledge and skills possessed by the truly good physician.

With very best wishes to you, sincerely yours,
Christopher C. Fordham III, MD
Professor of Medicine Emeritus

Of Sport and Medicine

by Debra Pierce

When Bill Garrett walks out his front door each morning, he's within minutes of any place he's ever lived — his parents' farm in Person County, the college he attended, his place of work. But his career in sports medicine and as a researcher, surgeon, and college professor have made him famous far beyond the little corner of North Carolina he's forever called home.

For Garrett, who assumed the chairmanship of UNC's Department of Orthopaedics on May 1, it all began with a high school football injury — an injury that ended his career as a football player, but introduced him to the world of medicine.

He recalls sitting in a doctor's overflowing waiting room with other big, muscular athletes all hoping for the okay to resume play. But for Garrett that day, the news was not good. While talking to the doctor about his injury, however, he discovered his own fascination with the human body, and muscles in particular.

"Every orthopaedic surgeon has in interest in sports and exercise," he asserts.

Garrett's interest did not wane after he matriculated as an undergraduate at Carolina. "After taking some classes and talking to professors I especially liked the concept of medicine, but also of research, and searched for a way to do both," he explains.

The answer lay in academic medicine. After receiving a bachelor of arts in chemistry from UNC, where he was a Morehead Scholar, Garrett earned an MD from Duke University's School of Medicine in 1976. He also received a PhD in molecular biology that same year from Duke. Garrett completed his residency and internships in Durham and received his first appointment there in 1982, when he was named assistant professor for orthopaedic surgery and cell biology. At the time he left, he was professor of orthopaedic surgery and also served as director of the Sports Medicine Center.

A friend and colleague, School of Medicine Dean Jeffrey Houpt, lured Garrett back to Chapel Hill from his lab and his classroom at Duke. Garrett is glad to be back. "I have the privilege of working with a constant procession of very, very bright young people who are interested in academics and sports medicine. I got turned on to medicine here at UNC and I hope I can excite these young people to stay with orthopaedics," he says.

Like a true Carolina fan, Garrett touts orthopaedic education at UNC as "as good as it is anywhere in the country. It's hard to think of moving up in rankings if you're already number one. So, we plan to work hard to maintain that ranking," he says matter-of-factly.

William E. Garrett Jr., MD, PhD, first chair of the UNC Department of Orthopaedics.

Since he's been on board, Garrett has worked diligently to establish a research lab better than the one he left behind. It will be a human performance lab where Garrett and others will study how muscles are used and how muscle and joints respond under pressure.

Garrett explains that more sports injuries occur when an athlete stops, cuts, or performs a pivoting maneuver. "We create the forces that cause us to injure ourselves but how do we do that? How does muscle function during activities in which we injure ourselves? How we get injured is as important as finding out how we recover. We plan to be the place where this is discovered," he says.

Through his research, Garrett has noticed that the weakness after injury is not weakness in the muscle but "simply that the brain won't let us push ourselves — or the muscle in this case — as hard as it can go. That's our protective senses working for us. But why is that? I want to find out more." Garrett is studying musculoskeletal injury in a way that's never been done before. "It's fascinating and may help us in the treatment of arthritis," he says.

His interest in sports medicine and his good works led him to become the medical director for the U.S. Soccer Federation and physician to three U.S. world soccer teams. He's attended three of the last four World Cup championships, missing last year's "only because I changed jobs and needed to be here. But I'll be at the next one," he says. Garrett also is actively involved with the U.S. Olympics teams and serves on the board of directors for the Society for Tennis Medicine and Science. Over the years, he's provided general health care of athletic teams at the secondary, collegiate and professional levels.

Garrett is nationally recognized for his work, earning the Kappa Delta Award in 1997 from the American Academy of Orthopaedic Surgeons, the highest honor given in the area of orthopaedics. He's authored over 80 papers and research articles and currently has two textbooks in progress. Garrett is prominent nationally with membership in the American Academy of Orthopedic Surgeons, American Board of Orthopedic Surgery and the American College of Sports Medicine.

Right now, he's focused on his new role and the many challenges and opportunities that come with being a department chair. His goals for the department appear clear and focused: to improve inpatient access to orthopaedics; to provide friendly and efficient service; to maintain national excellence in orthopaedic subspecialties; and to gain even more regional and national presence.

He recognizes the difficulties in balancing the many responsibilities of a department chair. "You persevere to be a good doctor, good teacher, good researcher, and good business person. There's a tendency to let doctoring and business crowd out teaching and research. I'm hoping that won't happen. I'm counting on the folks here to remind me of that from time to time." □

Continued from Dean's Page

create knowledge that leads to better and more cost-effective delivery of clinical services, enhances health, and reduces the impact of disease, both in terms of human morbidity and the consumption of economic resources. It must be committed to world-class research centers housing interdisciplinary teams of experts who share knowledge and resources and anticipate the health-related needs of the people in the state. The ideal public medical school also serves as an advocate for the state's citizens with regard to legislation, managed care, and matters of health promotion and disease prevention.

The ideal academic health center of the 21st century has a unified administrative structure for its hospital and medical school. This structure affords integration of clinical practice and education, which is facilitated by a sophisticated electronic data management system. The structure also has an established system to assess the value of what is being produced by evaluating outcomes and tracking monies from all sources and expenditures from all centers.

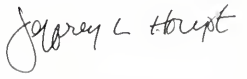
Continued from Dean's Page

the outcomes of care.

Some clear agreements—and disagreements—emerged regarding the issues in contention. The majority of respondents agreed that more clinical education should be conducted through the regional AHECs (70 percent overall, but only 55.4 percent of on-campus faculty), education should be interdisciplinary (86.7 percent), the curriculum should be reviewed on an ongoing basis (90.3 percent), and alternative medicine electives should be offered (60.7 percent). Most (70 percent) disagreed with "tracking" students into primary care, subspecialty care, and research. Respondents divided fairly evenly on whether the admissions process should seek students with greater scientific background.

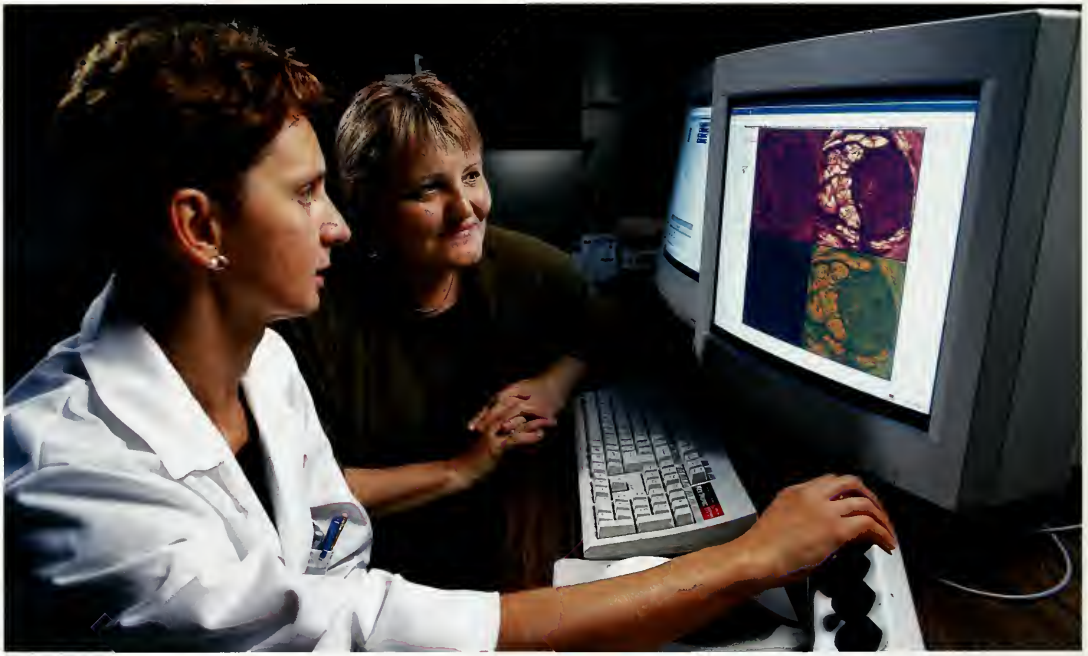
A large majority supported developing a mechanism for addressing under-performing tenured faculty (93.8 percent) and performance-based salary incentives (84.8 percent). Only 32.5 percent thought faculty should concentrate on research, teaching, or patient care, and 52.3 percent agreed that the administrative structure in a model public medical school should de-emphasize departments and realign along interdisciplinary service or research dimensions.

I plan to pursue some of these findings over the course of the year. Dr. Cheryl McCartney, executive associate dean for Medical Education, will define processes for an ongoing review of the curriculum (rather than once every seven years), and look at the possibility of more interdisciplinary teaching. Dr. Gene Orringer, executive associate dean for Faculty Affairs, will look at the issue of tenured professors and the possibility of performance-based salary incentives. If you have any further thoughts on these issues, you may address them to me or directly to Drs. McCartney or Orringer. Many thanks to the faculty and alumni who so very generously donated their time, energy, and thoughts to this effort.



Jeffrey L. Houpt, MD
Dean

New Evidence For Growth Factor Role in Crohn's Disease



P. Kay Lund, PhD (right), and Jolanta Pucilowska, MD, review confocal fluorescence photographs of fibrosis in a bowel that was surgically removed from a patient with Crohn's disease (see inset, right). In addition to Pucilowska, other members of the Lund lab engaged in Crohn's disease-related work are Niru Mohapatra, PhD, Kristen Williams and Randy Fuller. Dr. Lund also works in close collaboration with Balfour Sartor, MD, of the Department of Medicine, and with the UNC Center for Gastrointestinal Biology and Disease.

by Leslie Lang

A protein molecule that helps regulate body growth may play an important role in the development and progression of Crohn's disease (CD), a chronic, incurable, and frequently disabling inflammatory bowel disorder, new research shows.

Scientists led by P. Kay Lund, PhD, professor of physiology at the School of Medicine, have used radioactive gene probes to find significantly increased production of insulin-like growth factor (IGF-I) in inflamed and thickened intestinal tissue samples of CD patients but not in otherwise healthy bowel tissue from the same individuals. The tissue came from patients during bowel resection surgery.

"Somehow the gene for IGF-I was switched on in these cells and is not switched on in normal or non-diseased cells," Lund says. She also notes finding no evidence of increased IGF-I activity in bowel tissue from surgery patients with ulcerative colitis, the second major inflammatory bowel disorder, one that involves only the colon.

Lund says the bowel in some CD patients "tries to overgrow, something goes wrong and the structural support elements of the tissue grow excessively, and so you get a bowel that's thickened and obstructed because the wrong cells grow. This aberrant growth is termed fibrosis and is associated with deposition of lots of collagen — a molecule associated with scarring." During this thickening, whole sections of intestinal smooth muscle cells can become encased in a dense overgrowth of fibrous collagen.

According to the UNC scientist, the new findings raise the possibility that treatment aimed at blocking IGF-I in the bowel could prevent fibrosis complications, such as intestinal stricture (narrowing) and obstruction. Such complications frequently require removal of major portions of bowel. Since CD often eventually reappears elsewhere in the bowel, surgeries for recurrent complications can result in "short bowel syndrome" — not enough small intestine for nutrient absorption — which leaves many patients relying

for life on intravenous feeding.

In addition, Lund points out that bowel-removal surgery itself may exacerbate fibrosis. "You will often get stricture or obstruction of the bowel close to the point where you once had surgery," she says.

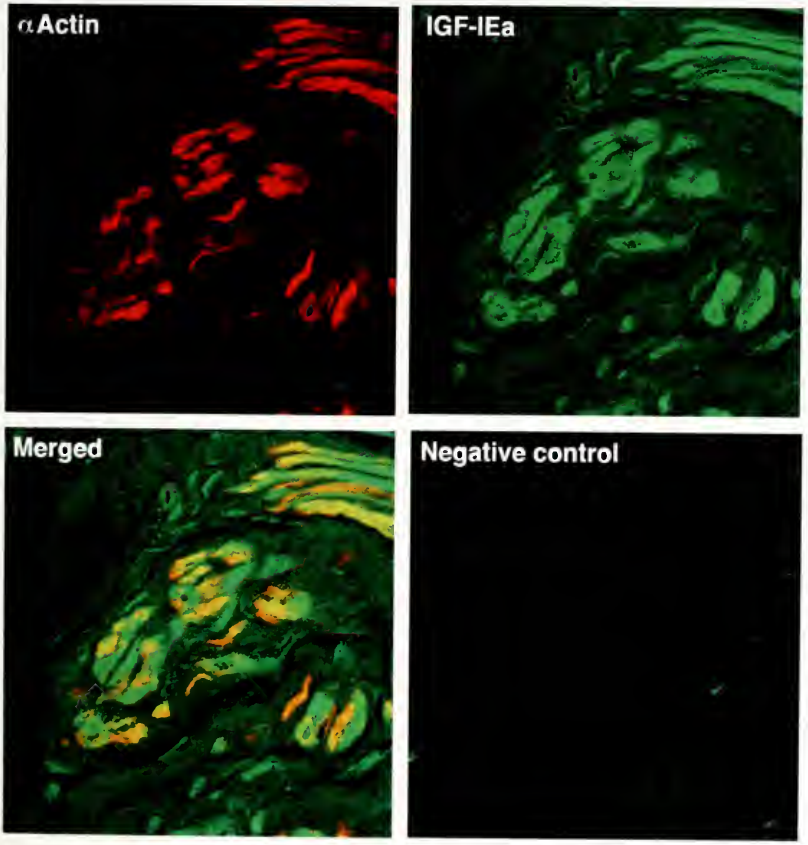
Dr. Ellen Zimmermann of the University of Michigan, while a post-doctoral fellow in Lund's lab in 1993, discovered that IGF-I was massively expressed in the areas of fibrosis. Lund says more recent *in vitro* laboratory experiments in her UNC physiology lab support the concept that IGF-I "could be a culprit in fibrosis formation, causing bowel cells to make more collagen and to grow inappropriately."

Still, as Lund points out, such findings don't tell us definitively if IGF-I acts the same way on bowel cells *in vivo* — in live animals. That's why she and her colleagues are studying strains of transgenic mice — animals genetically engineered to overproduce IGF-I in cells that are involved in the fibrosis of CD. "Then if we experimentally give them bowel inflammation, do we get this excessive fibrogenic response?" she asks.

The UNC researcher speculates that if IGF-I proves a major culprit in CD progression, inhibitors of its action such as IGF binding proteins (IGFBPs) may be used therapeutically to help prevent fibrosis and its complications.

An estimated six new Crohn's disease cases per 100,000 population occur in most developed countries, including the United States, each year. Peak ages are in adolescence and early adulthood and after age 60. Symptoms of CD include abdominal pain, fever, diarrhea, and weight loss. Its cause is unknown. However, some researchers suggest the disease arises from an excessive immune response to bacteria in the bowel.

Lund and Zimmermann presented the human bowel tissue findings to a national conference of the American Gastroenterological Association. An abstract of the study is available upon request. □



Confocal fluorescence photographs show cells that contain IGF-I and alpha smooth muscle actin in areas of fibrosis in bowel that was surgically removed from a patient with Crohn's disease.

The confocal microscope uses lasers and fluorescent tags to allow high magnification (4000 times) views of cells. Antibodies that bind to IGF-I have a green tag and antibodies that bind alpha smooth muscle actin have a red tag. Note the overlap in cells that contain IGF-I (green) and alpha smooth muscle actin (red). Orange yellow in the panel labeled 'merged' depicts absolute overlap when the green and red images are superimposed on each other. This provides proof that IGF-I is made in cells that also make actin. The significance of this is that these actin expressing cells are thought to be the cellular culprits responsible for fibrosis/scarring in a number of diseases. IGF-I may serve to expand the population of 'culprit' cells.

Similar analyses in bowel taken from patients with no evidence of Crohn's disease reveals essentially no cell that express IGF-I.

UNC Initiates Biomedical Liver Treatments

by Robin C. Gaitens

Last summer, researchers at the School of Medicine were the first on the East Coast to test the safety and effectiveness of a bioartificial liver.

Just days after Circe Biomedical announced that the U.S. Food and Drug Administration had approved phase II/III clinical trials for its bioartificial liver support system HepatAssist, UNC Hospitals enrolled its first patient in the study.

"The patient was referred to us by Dr. John Gilliam at Wake Forest University Baptist Medical Center," said Jeffrey Fair, MD, assistant professor of surgery and principal investigator. "He did an excellent job assessing the patient, determining that she would be a good candidate for this study, and then educating her family about this clinical trial."

The patient, a 45-year-old woman from Winston-Salem, N.C., was the first person east of the Mississippi to receive HepatAssist therapy and the third person in the United States to be enrolled in this phase II/III clinical trial.

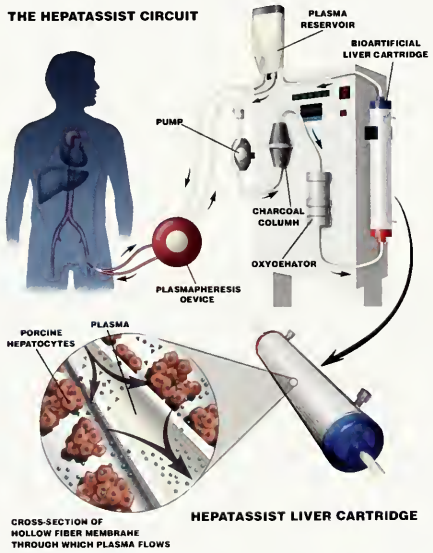
"I had just received a letter from UNC about this study," explained gastroenterologist John H. Gilliam III, MD. "I was glad to hear that someone in the state has a bioartificial liver because it's very badly needed."

Currently, UNC is the only site in North Carolina with access to this technology and the only institution on the East Coast participating in this pivotal trial; additional centers in the region may soon be enrolled said Circe Biomedical officials.

The HepatAssist liver support system is designed to temporarily provide essential liver function for patients with acute liver failure. The primary goal of this study is to determine whether the HepatAssist liver support system provides a "bridge" to liver transplant or to regeneration and recovery.

Another goal is to compare the effects of standard surgical intensive care with daily bioartificial liver support treatments to standard surgical intensive care alone.

"All patients with acute liver failure who are admitted to the surgical intensive care unit at UNC Hospitals will be screened for entry into this study," said Fair, who is also the surgical director of the abdominal transplant program in the UNC Comprehensive Transplant Center. "Those meeting the eligibility criteria and accepted into the study will then be randomly assigned to one of two groups — either the group that receives standard surgical intensive care with daily HepatAssist treatments or the group that receives standard surgical intensive care alone."



Following plasmapheresis, plasma circulates through the HepatAssist Circuit and into the Bioreactor, where it passes through thousands of biocompatible tubular membranes and interacts with the surrounding porcine hepatocytes. The live cells mimic the metabolic function of a healthy liver. (Diagram courtesy of Circe Biomedical.)

Said Clinical Trial Coordinator Jane Salm, a registered nurse, "When we called about enrolling this patient in the study, we didn't know which group she would be assigned to. We were very excited when she was assigned to the group to receive the HepatAssist treatment."

The HepatAssist liver support system is an extracorporeal treatment which resembles a dialysis machine. During treatment, the patient's plasma is circulated through a cartridge containing thousands of hollow fiber membranes surrounded by living, sterile pig liver cells (hepatocytes). The patient's own plasma may be detoxified by oxygen-rich hepatocytes, which are capable of performing many of the metabolic functions of a healthy liver. One treatment session lasts seven hours; treatments can be administered at eight-hour intervals for up to 14 days.

Fair estimated that 30 patients from UNC Hospitals will participate in this phase II/III clinical trial over the course of a year. Other UNC researchers involved in the study include David Gerber, MD, and Mark Johnson, MD, both assistant professors of surgery, and Steven Zacks, MD, clinical assistant professor of medicine.

Besides Chapel Hill, other U.S. sites participating include: Cedars-Sinai Medical Center in Los Angeles; Mayo Clinic in Rochester, MN; Oregon Health Sciences Center in Portland; Rush-Presbyterian Medical Center in Chicago; University of Alabama at Birmingham Medical Center; University of California at San Francisco Medical Center; and University of Colorado Health Services Center in Denver. □

Fishing Around Aquascogoc In Search of the 'Lost Colony'

by Edward A. 'Carolina' Norfleet, MD

The Sir Walter Ralegh[1] expeditions to Roanoke Island under charters from Queen Elizabeth sent explorers and the first English colonists to the North Carolina coast on three different occasions from 1584 to 1587. Here for the first time Englishmen met the Algonkian Indians who had inhabited this area since AD 1000. The voyagers were greeted with hospitality and befriended by an Indian named Manteo. The first survey expedition of 1584 was followed in 1585 by the ill fated "first colony," and then by the mysterious disappearance of the "Lost Colony" in 1587. Today, despite extensive scholarly research and conjecture, the fate of the "Lost Colony" continues to be one of the greatest mysteries in American history.

John White, a member of the Sir Walter Ralegh expeditions to Roanoke Island, captured this image of Indians fishing. © The British Museum, British Museum Press.

For most of my life I have been biased toward the basic sciences, with little interest in the liberal arts. But while fishing on the Pungo River a few years ago, I made a discovery that greatly stimulated my curiosity. From this experience I developed an intense interest in the history, anthropology, archeology and heritage of our state and the role of North Carolina in shaping the beginnings of America. The story of my discovery and the search that unfolded provided for me all of the characters, plot, and color of an "Indiana Jones" adventure, complete with silver cup.

The story begins near historic Bath, the oldest incorporated town in North Carolina and home of Blackbeard the pirate. I was visiting a younger relative who, after serving a delicious dinner of blue crabs and shrimp steamed in Old Bay seasoning and beer, shared a childhood secret — a large collection of American Indian artifacts that she had collected as a child. As I held the beautiful pieces of pottery, beads, arrowheads, and stone tools, I felt an uncanny link to earlier humanity. These very objects, which provided for the livelihood and survival of North Carolina's native people, seemed to come alive and yearn to reveal their story.

I returned to Chapel Hill and some time passed. But as one who enjoys fishing, I would soon be attracted back to the coastline. My favorite fish are the "puppy" drum, the speckled sea trout, the "rock" (stripped bass), and the mighty "silver king" or tarpon. Some may ask, "What's so great about fishing?" I received my on-the-water training from some of the best anglers on the North Carolina coast, famous names like Sloan, Maddison, Ruffin, Hundley, Dominick, Hamrick, Campbell, Simmons, and May. They taught me that a fisherman's enjoyment begins long before he leaves for the shore. Fishing begins in our minds as we "get ready" to dream, to anticipate, to work hard, and to develop both patience and hope. The joy of fishing creates in us an eternal optimism, and for me a refreshing balance to the stresses of a busy medical practice. While fishing we sometimes become mesmerized by the natural beauty of our surroundings as our minds find peace and time stands still. Thus, it is not unusual at all for fishermen to seize the opportunity for discovery, and sometimes as we select our colorful lures, we even begin to think like fish.

And so it happened. One day I was fishing a creek along the Pungo River, when I noticed an unusually large collection of old shattered oyster shells submerged in the tannin- stained water. Was this an ancient Indian oyster mound? This area centuries ago was above land but because of erosion caused by nor'easters and *hurricanes*[2], it was now several feet below the river surface. As I examined the area more closely, mixed in with the oyster shells, I found large numbers of darkly colored pottery shards and other stone artifacts that were remarkably similar to those I had held in Bath. These potsherds were distinctly decorated on their convex surfaces with an intriguing fabric design. Once again I felt that sense of connection, of a link to the past. This discovery stimulated my curiosity to such an extent that I began an intense search to find out all I could about this enchanting place and the people who had lived there centuries ago.

Several weeks later, back in Chapel Hill, I was downtown in the lobby of University Square West when I noticed an interesting old map of North Carolina that had been drawn by Captain John Collet in 1770. Look-

ing closely, I noticed that the Pungo River was engraved as the Machapunga River. With this information I began to research in the rare book room of UNC's Wilson Library and in the archives of history in Raleigh. I began collecting old maps and creating my own library on the early history of the state.

One of the more fascinating resources was a very scholarly discussion and collection of 16th century maps of North Carolina by William P. Cummings. I found it especially interesting that Giovanni Verrazzano in 1524 sailed from Cape Fear along the Outer Banks and at Ocracoke Inlet viewed the Pamlico Sound, which he thought was the long sought-after ocean passageway to the Orient. In his brother's map of 1529 and maps to follow, North Carolina, except for the isthmus of the Outer Banks, is non-existent and is covered by an "oriental" sea with land masses to the north and south.

Also in this collection I found the renowned John White maps. These maps of 1585 and 1589 greatly sophisticated the topography of the North Carolina coastline as a result of the personal exploration of the rivers and Indian villages by White and other members of the Ralegh expeditions. As I looked very closely at White's map drawn over 400 years ago, I discovered the Indian village of Aquascogoc, situated very close to Belhaven and within an arrow's flight of where I found the artifacts. From these maps I was led to "America 1585: The Complete Drawings of John White," by Paul Hulton.

I learned that White, a gifted artist, was selected by Ralegh to document in watercolor the natural riches of the new world and the unique cultural characteristics of the native people. These images were important upon return to England to stimulate interest and create resources for further exploration. These beautiful paintings now stand alone as the most valuable and only visual images of America in the late 16th century. Much to my surprise one need go no further than the walls of the Carolina Inn to view some of these magnificent watercolors.

White became the governor of the "Lost Colony." As governor he christened the faithful Manteo and gave him the English title Lord of Roanoke. Later, White became the grandfather of the first-born English child in the new world, Virginia Dare. It was White who left the colony to secure supplies from England. Upon his arrival, England and Spain were at war, which placed an embargo on his return to America. After a delay of three years, he returned to Roanoke Island with two ships, the *Hopewell* and the *Moonlight*, only to find that the colony had mysteriously disappeared. The only clue was the word "Croatoan" found carved on a tree.

White's remarkable watercolors stimulated my interest in learning about the culture

The Indian Village of Pomeiooc. © The British Museum, British Museum Press.

of the Carolina Algonkian Indians, and I was led to Douglas Right's "The American Indian in North Carolina." In this book I came across some particularly pertinent and interesting information. In a description of Grenville and Lane's 1585 explorations along the Pungo River a remarkable event occurred that led to perhaps the very first damaging encounter between American Indians and Englishmen:

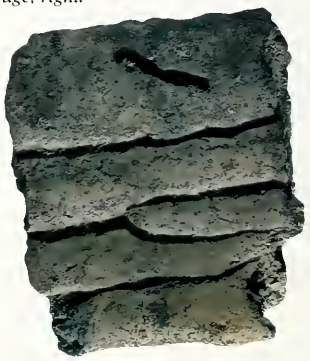
> "One party visited Croatoan on the sandbanks; the other set out for the mainland and reached settlements in the following order: July 12, Pomeiok; July 15, Aquascogoc; July 15, Secotan. —
>
> On their return occurred the first unfriendly encounter with the natives, reported as follows: The 16th, we returned thence, and one of our boats, with the admiral, was sent to Aquascogoc, to demand a silver cup which one of the savages had stolen from us, and not receiving it according to his promise, we burned and spoiled their corn, all the people being fled. Foreshadowed in this unhappy event was the one series of conflict between incoming settlers and Indians that spread through territory now included in every state of the union."

Contemporary historians Bland and Ann Simpson vividly discuss this same historical incident of violence in their fascinating book "Into the Sound Country."

> "Because an Indian apparently filched an Englishman's silver cup when Ralegh's explorers under Grenville and Lane were first sailing in the Carolina shallows in July 1585, the English then torched the Indians' town of Aquascogoc southwest of Mattamuskeet and fired their crops. This single, primal episode — both incident and response — prefigured John Smith's difficulties with Powhatan twenty years later as well as John Lawson's death-by-torture and the vicious Tuscarora War that ensued here in the Sound Country 126 years later; and it set a pattern in immigrant and Indian dealings of approach, communication, a flaring trouble, attack, counter attack and reprisal *ad infinitum*."

The events that occurred at Aquascogoc are likely to have had far reaching consequences. Corn was sacred to the native Indians. Seasonal rituals were held to celebrate the planting and harvest of the corn crop. Thus, destruction of the cornfields at Aquascogoc by the colonists was an event not easily forgotten by the Machapunga. Recent information from scientific examination

Samples of artifacts unearthed by the author while fishing, below and next page, right.



John White's map of Ralegh's Virginia. The site of the author's discoveries in the Pungo River is near "Aquascogoc" on the map. © The British Museum, British Museum Press.

of bald cypress tree-rings reveals that the "Lost Colony" disappeared during the time of the worst drought in 800 years. There is strong evidence that the English were greatly dependent on the Indians for their food supply. It is very likely that the combination of extreme drought conditions and the hostile discord with the mainland Indian tribes was responsible for exhaustion of the food supply, forcing the colonists to seek refuge elsewhere. I believe the colonists did simply what was inscribed on the tree: "Croatoan." They followed their faithful friend Manteo to live with his people, the Croatoans, on Hatteras Island.

As I continue to daydream and search, I will remember the important lessons I have learned as a fisherman of these shores. As an eternal optimist, I agree with the late Charles Kuralt as he expressed his feelings on Roanoke and the mystery of the "Lost Colony."

"I believe they lived on, I believe their blood runs in our veins."

And now, my enlightenment has grown and as I finish my story, I want to learn more. Today as I leave Chapel Hill to go back to fish around Aquascogoc, I will find myself traveling through important crossroads of North Carolina history; Raleigh, Washington, Bath, and Manteo. With new perspective, revived enthusiasm, and pride in our state I will go first to visit Roanoke Island and with great anticipation and reverence be entertained as so many Americans have before by the performance of Paul Green's "Lost Colony." I will then leave to visit Hatteras (Croatoan), and Ocracoke, the "unique fishing village by the sea." As I listen to the native Ocracokers Old Elizabethan dialect, I believe I will hear the descendent voices of the "Lost Colonists." Finally, I will leave Ocracoke by ferry to cross over the sparkling emerald-colored waters of the Pamlico Sound to Swanquarter, and then to Belhaven to again fish the Pungo River. Just before daybreak I will look up at the same stars and I will pass silently over the same canoe pathways taken by the Machapungas, the Mattamuskeets, the Croatoans, the Corees, and our English ancestors as they met their destinies.

When he is not fishing or exploring North Carolina history, Edward A. 'Carolina' Norfleet serves as professor and vice chair of anesthesiology at UNC.

Bibliography

Cummings, William C. Mapping the North Carolina Coast, Sixteenth-Century Cartography and the Roanoke Voyages. Division of Archives and History, North Carolina Department of Cultural Resources, 1988.

Hulton, Paul. *America 1585* The Complete Drawings of John White. North Carolina: The University of North Carolina Press, 1984.

Kuralt, Charles and Loonis McGlohon. North Carolina is My Home. Chester, NC: Patty Davis, The Globe Pequot Press, 1986. P 25.

Powell William S. North Carolina — A History. North Carolina: University of North Carolina Press, W.W. Norton, Inc, 1988.

Quinn, David Beers. The Lost Colonists — Their Fortune and Probably Fate. The North Carolina Division of Archives and History, 1984.

Rights, Douglas L. The American Indian in North Carolina. Winston Salem, NC: John F. Blair, 1957. P 15-16.

Simpson, Bland and Ann Cary Simpson. Into the Sound Country — A Carolina's Coastal Plain. Chapel Hill and London: University of North Carolina Press, 1997. P 195.

Stahle, David W. et al., The Lost Colony and Jamestown Droughts, *Science*, Vol. 280, April 1998, P 564-567.

[1]Although Sir Walter Ralegh spelled his name without the "i," our capital city, Raleigh, North Carolina, is spelled with an "i."

[2]Hurricane is an Indian name for a violent storm and was adopted into the English language.

Alumni Notes

40s

David S. Citron, MD '43, has been retired since 1987, but remained active in various medical capacities until 1997. In September in 1998, he and his wife relocated to Tucson, Ariz., to join their two children.

50s

James F. Williams Jr., MD '50, is a clinic physician at Central Valley Indian Health in Fresno, Calif. He writes, "My wife Althea went to heaven 10 Oct. 1997. Three children, 12 grandchildren and one-and-seven-eighths great-grandchildren." He closed his private practice in 1989 and now works 32 hours a month.

60s

Bruce F. Caldwell, MD '63, is semi-retired following a serious automobile accident, and writes "I now have a reason for not remembering things." He is active in local community theater and big on gardening, stained glass and oil painting. He can be reached at <bruiser@intrstar.net>.

A. Everette James Jr., MD '63, retired chair of radiology at Vanderbilt Medical School, has restored and reopened a 1910 building, the Bank of Robersonville, in his North Carolina home town. At a July 19 ceremony at St. James Place Museum, James hosted state and local dignitaries and provided tours of the building. The museum, formerly the Primitive Baptist Church, also had been restored by James. It houses the James-Wilson Collection of North Carolina Pottery and the James Collection of North Carolina Quilts. The museum and its collection won James the Carraway Award from Preservation North Carolina for its restoration.

James, who has three children and two grandchildren, is president of the N.C. Veterinary School Foundation, author of "Thoughts of a Collector," "Tales of the Dismal Swamp," "Essays in Folk Art," and "Crimes Against Nature."

Donald K. Nelms, MD '64, is president-elect of the Texas Pediatric Society. He lives in Fort Worth.

Robert L. Grubb Jr., MD '65, the Herbert Lourie professor of neurological surgery and professor of radiology at Washington University School of Medicine in St. Louis, has become the 40th chairman of the American Board of Neurological Surgery. He will serve a one-year term. Grubb also has been elected the 49th president of the Southern Neurological Society, the membership of which now includes 500 neurosurgeons.

Grubb is a neurosurgeon at Barnes-Jewish and St. Louis Children's hospitals and a consultant in neurological surgery at the John Cochran Veterans Administration Hospital. Other national appointments include membership on the Scientific Advisory Committee and Executive Committee of the Research Foundation of the American Association of Neurological Surgeons. He also sits on the advisory board of the *Journal of Neurosurgery*, whose editorial board he has chaired.

The author or co-author of 116 peer-reviewed papers and chapters in books, Grubb's research focuses on the use of positron emission tomography to study cerebral blood flow and metabolism in patients with carotid artery occlusion and stroke, head injury, and subarachnoid hemmorrhage. In 1990, this work earned him the Grass Prize for Research from the Society of Neurological Surgeons.

A. Everette James, MD '63 (right), hosted the N.C. Folk Art Society last summer in honor of the reopening of the Bank of Robersonville building, a 1910 building which he restored (see alumni note).

David A. Evans, MD '67, retired July 1 after 26 years of obstetrics/gynecology practice at the Ormand Center for Women. He plans to enjoy fishing, golf and spend time with the family, especially the grandchildren.

Rutherford "Rud" Brown Polhill Jr., MD '68, is an associate professor of pediatrics in the division of pediatric emergency medicine at the University of Alabama at Birmingham School of Medicine and The Children's Hospital of Alabama. He married Sherry Burrows Polhill on August 13, 1994, and writes, "Sherry and I each have two children from previous marriages, and two recent additions from our marriage, Emily, age 2, and Sarah, 10 months, make a total of six children — and I have three grandchildren."

Polhill is medical director of telephone triage, and his wife is a divisional director of operations at Children's Hospital.

After 15 years of general pediatric practice, he joined the UAB faculty in 1989 as director of ambulatory pediatrics, and in 1992 joined pediatric emergency medicine when it became a separate division.

He received an MBA from Samford University, Birmingham, in May 1998, and was inducted into Sigma Beta Delta, International

Honor Society in Business, Management and Administration, and Phi Kappa Phi, the national scholastic honor society.

"I was really sad I was unable to attend my 30th class reunion, but my ED schedule, class schedule, etc. just didn't permit it," Polhill says. "I'm looking forward to the next one."

70s

G. Dean Wilson Jr., MD '72, is president and founder of TriState Mountain Neurology in Johnson City, Tenn. His son, Ashley Dean, was married to his childhood sweetheart on May 11. Wilson writes, "Ashley was born during our 3rd year in med school! His first symphony is being 'world premiered' by the Johnson City Symphony Orchestra in November." Contact him at <janinewils@aol.com>.

Bruce A. Berlow, MD '75, has joined Shoreline Allergy and Asthma Associates, with offices in Mystic, Old Saybrook and Waterford, Conn.

Susanne Tropez (White) Sims, MD '75, professor of pediatrics at Meharry Medical College in Nashville, was named department chair in September 1997. Her e-mail address is <simsst15@ccvax.mmc.edu>.

James T. Frakes, MD, Housestaff '78-'80, was named president-elect of the American Society for Gastrointestinal Endoscopy. Frakes, the managing partner of Rockford Gastroenterology Associates Ltd. in Rockford, Ill., will assume the presidency in May 1999.

Frakes is a clinical professor of medicine at the University of Illinois College of Medicine at Rockford and director of the digestive diseases unit at Saint Anthony Medical Center, also in Rockford. He has received both the Faculty Distinguished Teaching Award and the Faculty Distinguished Service Award from the medical school and was selected by his physician colleagues for inclusion in The Best Doctors in America.

The ASGE is a 7,000 member professional society of digestive disease physicians in the United States and 50 foreign countries working to further knowledge of gastrointestinal disease through the use of endoscopy in clinical practice and research.

Gregory H. Tuttle, MD '78, is entering his 17th year on the medical staff at UNC-CH Student Health Services. For the past 10 years Tuttle has served as president of the medical staff, in addition to his duties at the SHS and as adjunct assistant professor of surgery, orthopaedics, emergency medicine and family medicine. He served as a full-time sports medicine physician from 1982 to 1994, moving to the clinical medicine division in the SHS and continuing part time in sports medicine.

Recently, Tuttle was selected as director of clinical medicine at SHS, succeeding Dr. James McCutchan, who is retiring after 30 years in the position. In addition, Tuttle will serve as interim co-chair of the SHS with Jane Hogan, PhD, and Dean Bresciani, PhD, for the 1998-99 academic year, due to the retirement of director Judith Cowan, MD.

80s

Janice L. Rea, MD '85, a pediatric emergency medicine physician at Scottish Rite Children's Medical Center in Atlanta, announces the birth of her fourth child, Thomas Wren Rea Gehle, on August 10, 1998.

Steven Baumrucker, MD '86, is assistant editor in chief of the *American Journal of Hospice & Palliative Care*. He has a solo practice, Medical Associates of Rogersville, in northeast Tennessee, and has served since 1992 as an assistant clinical professor and preceptor for the department of family medicine at East Tennessee State University. In addition, Baumrucker has served since 1994 as the medical director of Housecall Hospice of Upper East Tennessee.

Kelvin Harris, MD '86, is an obstetrician/gynecologist in Gastonia, N.C. In April 1998, he merged his private practice, Gaston Women's Healthcare, PA, with Nalle Clinic, a multispecialty clinic. He can be reached at <kchmd1@aol.com>.

Robyn Stacy-Humphries, MD '87, is chief of radiology at Union Regional Medical Center in Monroe, N.C. She and her husband, Scott, are proud to announce the adoption of a son, Michael Alexander, born January 1, 1998, in Kirov, Russia. They can be reached at <rsh@perigee.net>.

90s

Lori Wecher Balaban, MD '90, is a pediatrician in Charlottesville, Va. She and her husband, David, have a 2-year-old son, Michael.

Richard Shea, MD '91, was separated from the U.S. Army with a rank of major in June 1998 at Fort Hood. He is now on the obstetrics/gynecology faculty at the University of Texas Medical Branch-Galveston, assigned to St. Elizabeth family practice residency in Beaumont, Texas. He can be reached at <shea@lh2000.net>.

Elizabeth D. Cressy, MD '92, is an internist in the New Orleans, La., area. She married Bruce Anthony Develle on March 14, 1998. They live in River Ridge.

Rita Treanor Plemmons, MD '92, is medical director at Neighborhood Health Care in Braselton, Ga. She and her husband, Paul Lee Plemmons, have a daughter, Sarah Keever, born May 30, 1998.

James W. Wilson Jr., MD '92, recently completed a sports medicine orthopedic fellowship with Stedman and Hawkins in Vail, Colo., and has joined the Georgia Specialty Group in Savannah. He has been married since July 1996 to Erica VonBargen.

Laura Enyedi, MD '93, is a fellow in pediatric ophthalmology and strabismus at Duke. She and her husband, Mark, welcomed their second child, Andrew Christopher, on August 25, 1998. Their daughter, Emily, is 2. Enyedi completes her fellowship this year and will be pursuing a part-time job.

David Leslie, MD '93, is a third-year pediatric rheumatolgoy fellow at Children's Hospital in Boston. He and his wife, **Lu-Ann Caron-Leslie, PhD '92**, welcomed their fourth child, Mariah Lu, on August 29, 1998.

Loretta Kaus Tibbels, MD '93, is a clinical assistant professor at the University of Nebraska Medical Center in Omaha. She and her husband, Dr. Stephen Tibbels, welcomed their third daughter, Danielle Marie, on June 20, 1998. They can be reached at <srtibbels@pol.net>.

Rebecca Denson, MD '94, completed a residency in anesthesia at the University of Florida. She plans to start a fellowship in critical care medicine in the summer of 1999, and can be reached at <denson@anest1.anest.ufl.edu>.

Natalie Gould, MD '94, is a clinical instructor in gynecologic oncology in Oklahoma City.

Laura M. Robert, MD '95, joined Timberlake Family Practice in Lynchburg after completing a family practice residency in Fairfax, Virg.

John Surles, MD '95, is an emergency physician at Heritage Hospital in Tarboro, N.C.

Carolyn Church Davis, MD '96, and **North Joseph Davis, MD '96**, both residents at Baptist Hospital in Winston-Salem, announce the birth of a baby boy, Legend Carlsson Davis, on July 17, 1998.

Mary Jane Preston, MS '96, is a physical therapist in Chicago.

Deaths

Archie Barringer, MD '34

Peter Somers Scott, MD '46

Sallie Ann Attkisson, MD '94

Planning a Gift – It's Always the Right Time

by Ginger Travis

John Stephenson, MD '89, an Atlanta anesthesiologist, and his wife Kristen recently did something not many 30-somethings do: they made their wills. And, in a surprising move for people so early on the earning curve of their careers, they also remembered the School of Medicine with a bequest to the Medical Foundation.

Like Stephenson, Annie Louise Wilkerson, MD '36, the pioneering Raleigh obstetrician who delivered more than 8,000 babies over 50-plus years, recently made an estate plan too – something she says she was far too busy to do while practicing.

At the urging of her accountant shortly before her retirement in 1993, Wilkerson took stock of her assets and began planning her legacy to Carolina, where her formal medical education began. Her gift of two endowed professorships will flow from a combination of sources: the assets of her pension fund plus a charitable remainder unitrust she set up to provide income for herself and a family member for life. At the end of Wilkerson's life (and, in the case of the unitrust, the family member's life), the money will be used to fund the professorships in perpetuity.

Wilkerson and Stephenson, though 50 years apart in age, are much alike in giving: both give annually to the Loyalty Fund, and *both want to do more for UNC in the future than they are prepared to do right now.* Thus, each has made giving to the Medical Foundation part of a larger plan that meets other financial goals.

Jane McNeer, vice president of the Medical Foundation, offers these tips when it comes to planning a gift:

• Age doesn't matter. You can plan to give back to UNC at any age and any point in your career.

• *Planning* allows you to give more at a specified time in the future than you are ready to give right now.

• *Planning* lets you give in the way that's most appropriate to your age and situation in life, whether your peak earning years are ahead of you or behind you.

• Gift planning has tremendous advantages – both emotional and financial. Along with the satisfaction of making a substantial contribution to medical education at UNC, there also can be important tax breaks and, in the case of charitable remainder trusts and gift annuities, lifetime income for yourself and/or a loved one.

John and Kristen Stephenson with their children, Elizabeth, 2, and Zachary, 3.

Last will and testament – at least for now

Stephenson, originally from Rockingham, North Carolina, says "I always thought a lot of Carolina growing up." But when it came time to choose a college, he couldn't refuse the scholarship Wake Forest University offered. But he did find his way back to Chapel Hill for medical school, and Stephenson now works at Saint Joseph's Hospital of Atlanta. What got him thinking about giving back to UNC was meeting John Foust, MD '55, national Loyalty Fund chair, and then agreeing to chair the 10th reunion organizing committee for his medical school class campaign.

Working with the Medical Foundation, Stephenson quickly grasped the importance of private support for UNC's medical faculty and students. He not only made his annual Loyalty Fund gift but also put the Medical Foundation in his will as a contingent beneficiary. Of course his will primarily protects his family: It names guardians for the Stephenson children, and it is structured to maximize the tax benefits of transferring property to his wife, or, if he and she both die, of creating a trust for their children. The Medical Foundation, Stephenson says, receives a share of his estate "only if we're all wiped out." That's the contingency — one that makes perfect sense for a 36-year-old father who needs his assets to support a growing family (two children now and one on the way). When his children are older, he says, he can update his will and make a direct bequest. For now, his contingent bequest is appropriate.

Two birds with one stone: a meaningful legacy and retirement too

Born in 1914, Wilkerson never wanted to do anything else for a living but follow her father, Charles Banes Wilkerson Sr., MD '06, into medicine. In 1934, when other medical schools discouraged women, UNC opened its doors to the determined young woman from Raleigh. She has always been grateful

Gift-planning tools

Wills allow you to decide who will receive your assets when you die. If you don't leave a will, the state makes this decision for you through the laws of intestacy – regardless of what you might have wished. Bequests make sense as a gift-giving tool when you need to keep control of all of your assets during life – for example, when you're uncertain of your future expenses.

- Specific bequest – a stated dollar amount or percentage of an estate.
- Residual bequest – all or a percentage of the remainder of an estate after specifc bequests have been fulfilled (usually results in the largest bequests to the Medical Foundation).
- Contingent bequest – bequest that takes effect only if all the primary beneficiaries have died.

Life-income gifts are usually made by people who want retirement income or who need to provide such income for someone else. ***How it works:*** the donor gives an asset such as cash, real estate or appreciated stock; the income beneficiary receives lifetime income based on the value of the gift and other factors. After the death of the income beneficiary(ies), the money is used to benefit the School of Medicine in the manner the donor specified. ***Why these gifts are popular:*** The donor often receives significant tax advantages related to income and capital gains. *Note that these kinds of gifts are irrevocable.* Each of the following types has its own advantages as far as the kinds of assets that can be used to fund the gift, the scope of tax advantages, whether income is fixed or variable, whether the income is guaranteed or not, and ease of arranging the gift.

- *Gift annuity*
- *Deferred gift annuity*
- *Pooled income fund*
- *Charitable remainder annuity trust*
- *Charitable remainder unitrust*

Retirement plans: It can make sense to plan a gift at death of tax-deferred retirement plans, such as traditional IRAs, to the Medical Foundation to avoid the possible burden of estate and income taxes that heirs might otherwise have to pay.

Life insurance can be given to the Medical Foundation or used as a wealth-replacement tool to benefit heirs when donors give assets to the Medical Foundation.

Important note: Always consult qualified financial and legal advisors as part of your gift planning.

for the opportunity.

From 1940 to 1993 Wilkerson practiced obstetrics and gynecology in Raleigh, including four years with her father and many years with her brothers Louis and Charles Wilkerson and their niece Mary Susan Fulghum, MD '71. At age 79, "Dr. Annie" retired.

Several years before retiring, Wilkerson had the idea to create a professorship in honor of her beloved father.

"My dad was a family practitioner and a wonderful diagnostician," she says. "He meant a lot to me. I felt he should be remembered."

But how could she afford to create a memorial professorship? She needed her assets to support herself in retirement, and her single most valuable asset, a 260-acre farm north of Raleigh, was also her home.

With the help of the Medical Foundation and her own attorney, Wilkerson found a two-fold solution: to create a charitable remainder unitrust and to give her pension fund assets.

First, to a charitable remainder unitrust Wilkerson gave 60 acres of land she owned across the road from the rest of her farm, along with some highly appreciated stock. These assets were sold by the trustee and invested to provide income to Wilkerson and another family member for the rest of their lives. After their deaths, the money from the trust will help endow, at $500,000 each, two distinguished professorships: one in family medicine named in honor of Charles B. Wilkerson and the other in obstetrics and gynecology bearing Annie Louise Wilkerson's name. To bring the endowments up to a combined total of $1 million, Wilkerson also directed that her remaining pension fund assets go to the Medical Foundation upon her death.

Annie Louise Wilkerson on her Wake County farm.

This gift is the culmination of Wilkerson's distinguished service to her profession. Establishing the professorships has given her tremendous satisfaction, and the charitable remainder unitrust provides income she needs. By giving highly appreciated assets to the trust she avoided capital gains tax on the transfer. And by giving her pension fund assets, she will avoid the extra layer of taxes these assets can trigger. Careful gift planning has brought great results.

Why not consider planning your own gift?

It's never too early or late to make an age-appropriate planned gift to support medical education at UNC. Gift planning is flexible: Your gift can and should be tailored to fit your needs. See the box for a quick summary of the possibilities. To find out more, call Jane McNeer at the Medical Foundation, 1-800-962-2543 (outside of Chapel Hill) or 966-1201 (local). She will be happy to work with your financial and legal advisors.

With careful planning you can make the gift of a lifetime – and enjoy the benefits.

Development Notes

Challenge campaign an overwhelming success

A tremendous thank you to the six alumni who sponsored Challenge Gifts during fiscal year 1997-98. Thanks to their effort and generosity, an additional $15,000 was raised for the Loyalty Fund.

From the Class of '63, New Bern resident Neil C. Bender, MD, and his wife Mary Dale challenged classmates to raise at least $5,000 more than their 1996-97 amount of $12,781. The class virtually doubled this goal, contributing $22,402 in 1997-98. Participation increased from 45 percent to 66 percent. Challenge goal exceeded by $4,621!

From the Class of '78, John D. Benson, MD, of Cary, J. Byron Walthall Jr., MD, of Charlotte, and Richard C. Worf, MD, of Winston-Salem combined to challenge their classmates to increase their giving by $6,000. When participation increased from 17 percent to 41 percent, the class was able to go from $8,818 in 1996-97 to $26,290 in 1997-98. Challenge goal exceeded by $11,472!

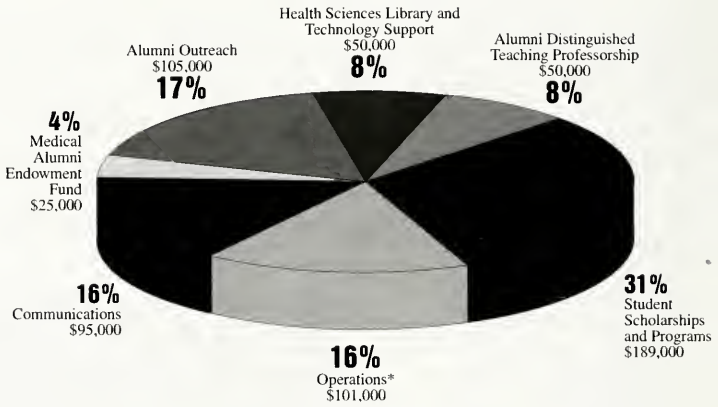
From the Class of '88, Edward W. Whitesides, MD, of Wilmington, and Jon P. Brisley, MD, of Roanoke, Va., combined to challenge classmates to a $4,000 increase in giving. They were not disappointed when participation increased from 17 percent to 39 percent, generating $17,850 in 1997-98, compared to $6,518 in 1996-97. Challenge goal exceeded by $7,332!

For more information on setting up a Challenge Gift for your next reunion, contact Jane McNeer or Brent Thomas at The Medical Foundation of North Carolina, Inc., (919) 966-1201.

MAA leads alumni support of Health Sciences Library

The Medical Alumni Association continues its leadership support of the Health Sciences Library through its pledge of $200,000, or 20 percent of the $1 million goal, to the library's building campaign, "Your Knowledge Source for Tomorrow."

Loyalty Fund Budget, FY 1998-99
$615,000



*Funds raised in excess of budget decrease the percentage

The campaign will help make possible the renovation and redesign of the building to meet the future information needs of faculty, students and health care providers.

As the major donor for the Medical Alumni Association Computer Lab in the library, the MAA also has continued to provide funding to support and upgrade the lab since its creation in 1994. Last year, old Macintosh computers were replaced with 13 new IBM-compatible computers.

To learn more or make a gift, contact Jane McNeer at The Medical Foundation of North Carolina, Inc., at (919) 966-1201.

Golf tournament benefits CF research fund

The Mike Hatcher Memorial Research Endowment Fund was the beneficiary of a June 22 golf tournament at Prestonwood Country Club in Cary, NC. More than $70,000 was contributed to the fund, which was established for ongoing research into the development of improved Cystic Fibrosis treatments.

The tournament honors the life of Mike Hatcher, who was diagnosed with CF at age 13. His life was committed to helping others with chronic diseases and seeking to improve CF treatment.

UNC participants included Thomas Egan, MD, Sherif Gabriel, PhD, Scott Donaldson, MD, Pierre Barker, MD, Ray Pickles, PhD, and James Yankaskas, MD. Yankaskas was Hatcher's personal physician for 15 years, and is a local leader in CF research and treatment.

THE MIKE HATCHER MEMORIAL
Golf Tournament
BB&T
GlaxoWellcome
GYPSY'S Shiny DINER

Report to Donors

Dear Medical School Alumnus:

The past year was another record year for our unrestricted annual giving program, the UNC Medical Alumni Loyalty Fund. The listing that follows includes the names of all those who made contributions to the Loyalty Fund between July 1, 1997 and June 30, 1998. Names in bold type recognize alumni who contributed at the $1,000 Loyalty Fund Associates level or above.

National Loyalty Fund Chair John Foust, MD '55, reports that during fiscal year 1997-98, medical alumni contributed $605,000, with 343 generously giving at the Loyalty Fund Associates level. In addition to these record-setting responses, the Loyalty Fund received gifts from 38 percent of all alumni.

As an annual, unrestricted fund, the Loyalty Fund is the keystone of alumni support for the medical school. However, in addition to the $605,000 in Loyalty Fund contributions, an additional $1.6 million was received from graduates for restricted purposes. These gifts helped advance departmental funds, professorships, lectureships and many other important projects. We are proud to note that more than $2 million was given by medical alumni. This is helpful to our programs and sets an example for the friends, parents, corporations and foundations that also support the UNC School of Medicine.

Thank you for your generous, continuous support of your medical alma mater.

Sincerely,

James L. Copeland, President
The Medical Foundation of North Carolina, Inc.

Editor's note: This issue of the Bulletin, including the Report to Donors, is normally published in December, a time when most people make philanthopic gifts. Because of production conflicts we were unable to mail at that time, and extend our apologies for any inconvenience this may have caused our donors. If you have not yet made your gift to the 1998-99 Loyalty Fund, please consider using the enclosed envelope and mailing your gift today. Thank you.

Honor Roll of Donors 1997-1998

$1,000-$9,999 donors are printed in bold.
$10,000 or more are printed in bold italics.

CLASS OF 1929
Number in class: 2
Percent donors: 50%
Vance T. Alexander, M.D., Davidson, NC

CLASS OF 1930
Number in class: 4
Percent donors: 25%
Rufus R. Little, M.D., Ho Ho Kus, NJ

CLASS OF 1931
Number in class: 9
Percent donors: 22%
Ralph B. Garrison, M.D., Hamlet, NC
J. Allen Whitaker, M.D., Rocky Mount, NC

CLASS OF 1932
Number in class: 7
Percent donors: 14%
George P. Rosemond, M.D., Lancaster, PA

CLASS OF 1933
Number in class: 4
Percent donors: 50%
Paul H. Rhodes, M.D., Denver, CO
Arthur F. Toole, M.D., Talladega, AL

CLASS OF 1934
Number in class: 6
Percent donors: 16%
Jean R. Stifler, M.D., Chapel Hill, NC

CLASS OF 1935
Number in class: 4
Percent donors: 25%
Julien H. Meyer, M.D., Roanoke, VA

CLASS OF 1936
Number in class: 13
Percent donors: 23%
Robert M. McMillan, M.D., Raleigh, NC
Landis P. Mitchell, M.D., Spindale, NC
Annie Louise Wilkerson, M.D., Raleigh, NC

CLASS OF 1937
Number in class: 8
Percent donors: 13%
W. Skellie Hunt, Jr., M.D., Wilmington, NC

CLASS OF 1939
Number in class: 12
Percent donors: 50%
Henry T. Clark, Jr., M.D., Chapel Hill, NC
Thomas W. Crowell, M.D., Bellingham, WA
Ben F. Fortune, M.D., Greensboro, NC
Edwin A. Rasberry, Jr., M.D., Wilson, NC
Pearl H. Scholz, M.D., Baltimore, MD
Thomas G. Thurston II, M.D.

CLASS OF 1940
Number in class: 26
Percent donors: 42%
Inez W. Elrod, M.D., Charlotte, NC
John B. Graham, M.D., Chapel Hill, NC
Henry C. Guynes, Jr., M.D., Rockwall, TX
Robert E. Kirkman, M.D., Key Biscayne, FL
H. Lee Large, Jr., M.D., Charlotte, NC
French H. McCain, M.D., Bloomfield Hills, MI
Lawrence E. Metcalf, M.D., Asheville, NC
Seymour Morse, M.D., Jacksonville, FL
George B. Patrick, Jr., M.D., Silver Spring, MD
John L. Ranson, Jr., M.D., Charlotte, NC
John H. Woltz, M.D., Roaring Gap, NC

CLASS OF 1941
Number in class: 17
Percent donors: 35%
Marcus L. Aderholdt, Jr., M.D., High Point, NC
Robert M. Hall, M.D., Raleigh, NC
Jack Hughes, M.D., Durham, NC
Claude Lowry Pressly, M.D., Charlotte, NC
Carlton G. Watkins, M.D., Charlotte, NC
Ernest H. Yelton, M.D., Rutherfordton, NC

CLASS OF 1942
Number in class: 23
Percent donors: 35%
Jerry H. Allen, M.D., Springfield, MO
Frederick A. Blount, M.D., Winston-Salem, NC
H. William Harris, M.D., Garden City, NY
Thomas S. Perrin, M.D., Charlotte, NC
James D. Piver, M.D., Emerald Isle, NC
George W. Plonk, M.D., Kings Mountain, NC
William Tenenblatt, M.D., Lake Worth, FL
R. Bertram Williams, Jr., M.D., Wilmington, NC

CLASS OF 1943
Number in class: 26
Percent donors: 50%
Douglas H. Clark, Sr., M.D., Lumberton, NC
Truett V. Bennett, M.D., Oriental, NC
James R. Collett, M.D., Morganton, NC
John C. Foushee, M.D., Sanford, NC
James B. Greenwood, Jr., M.D., Charlotte, NC
William N. Hubbard, Jr., M.D., Hickory Corners, MI
William F. Hutson, M.D., Northbrook, IL
Sarah T. Morrow, M.D., Ph.D., Raleigh, NC
S. Malone Parham, M.D., Henderson, NC
Frank R. Reynolds, M.D., Wilmington, NC
James H. Shell, Jr., M.D., Baltimore, MD
Kenneth W. Wilkins, M.D., Goldsboro, NC
Kenan B. Williams, M.D., Sanford, NC

CLASS OF 1944
Number in class: 49
Percent donors: 27%
J. Vincent Arey, M.D., Concord, NC
Hilda H. Bailey, M.D., Salisbury, NC
Earl E. Correll, M.D., Kannapolis, NC
Brice T. Dickson, Jr., M.D., Gastonia, NC
Francis P. King, Sr., M.D., New Bern, NC
Isaac V. Manly, M.D., Raleigh, NC
Clarence M. Miller, Jr., M.D., Sewickley, PA
George D. Penick, M.D., Wilmington, NC
Charles A. Speas Phillips, M.D., Pinehurst, NC
William L. Ross, Jr., M.D., Kensington, MD
J. Mitchell Sorrow, Jr., M.D., Chapel Hill, NC
Charles W. Tillett, M.D., Charlotte, NC
J. Taylor Vernon, M.D., Morganton, NC

CLASS OF 1945
Number in class: 28
Percent donors: 32%
G. Walker Blair, Jr., M.D., Burlington, NC
G. Robert Clutts, M.D., Greensboro, NC
A. Robert Cordell, M.D., Winston-Salem, NC
J. Hicks Corey, Jr., M.D., Chattanooga, TN
Courtney D. Egerton, Jr., M.D., Raleigh, NC
Harold L. Godwin, M.D., Fayetteville, NC
Weldon H. Jordan, M.D., Fayetteville, NC
John H. Monroe, M.D., Winston-Salem, NC
John R. Pender II, M.D., Charlotte, NC

CLASS OF 1946
Number in class: 29
Percent donors: 55%
Ira A. Abrahamson, Jr., M.D., Cincinnati, OH
Jules Amer, M.D., Denver, CO
Walter C. Barnes, Jr., M.D., Texarkana, TX
Crowell T. Daniel, Jr., M.D., Fayetteville, NC
Robert V. Dutton, M.D., Houston, TX
William W. Forrest, M.D., Greensboro, NC
Mary Alice V. Fox, M.D., Mount Desert, MA
G. Denman Hammond, M.D., Pasadena, CA
Robert S. Lackey, M.D., Charlotte, NC
William E. Sheely, M.D., Alexandria, VA
H. Frank Starr, Jr., M.D., Greensboro, NC
David G. Stroup, M.D., Savannah, GA
Arthur R. Summerlin, Jr., M.D., Raleigh, NC
Allen D. Tate, Jr., M.D., Burlington, NC
John E. Weyher, Jr., M.D., Topsail Beach, NC
Thomas E. Whitaker II, M.D., Greenville, SC

CLASS OF 1947
Number in class: 15
Percent donors: 20%
Edgar C. Sweeney, Jr., M.D., Charlotte, NC
Harry G. Walker, M.D., Statesville, NC
Sarah L. Warren, M.D., Chapel Hill, NC

CLASS OF 1948
Number in class: 27
Percent donors: 26%
Robert R. Aycock, M.D., Saint Helena, CA
Verna Y. Barefoot, M.D., New Bern, NC
Tyndall P. Harris, M.D., Chapel Hill, NC
Louis T. Kermon, M.D., Raleigh, NC
Julius A. MacKie, Jr., M.D., Bryn Mawr, PA
T. English Walker, M.D., Davidson, NC
Daniel T. Young, M.D., Chapel Hill, NC

CLASS OF 1949
Number in class: 40
Percent donors: 25%
J. Dewey Dorsett, Jr., M.D., Charlotte, NC
Christopher C. Fordham II, M.D., Chapel Hill, NC
F. Sidney Gardner, Jr., M.D., Fayetteville, NC
Odell C. Kimbrell, Jr., M.D., Raleigh, NC
Edward B. McKenzie, M.D., Statesville, NC
Charles F. Melchor, Jr., M.D., Myrtle Beach, SC
Edwin W. Monroe, M.D., Greenville, NC
Robert B. Pennington, M.D., Middletown, CT
Rose Pully, M.D., Kinston, NC
Maxine D. Wallace, M.D., Oakland, CA

CLASS OF 1950
Number in class: 43
Percent donors: 56%
Gertrude A. Bales, M.D., Rochester, NY
Frederick O. Bowman, Jr., M.D., Chapel Hill, NC
Jack O. Carson, M.D., Grifton, NC
Elwood B. Coley, M.D., Lumberton, NC
John T. Dees, M.D., Cary, NC
A. Monroe Diggs, M.D., Palm City, FL
Amzi J. Ellington, Jr., M.D., Burlington, NC
Mary B. Golby, M.D., Durham, NC
Joel B. Huneycutt, M.D., Lake Wylie, SC
George Johnson, Jr., M.D., Chapel Hill, NC
Harvey W. Johnston, M.D., Charlotte, NC
Benjamin H. Josephson, M.D., Basking Ridge, NJ
William S. Joyner, M.D., Chapel Hill, NC
John A. Kirkland, M.D., Wilson, NC
Laurence B. Leinbach, M.D., Winston-Salem, NC
Dan A. Martin, M.D., Madisonville, KY
John L. McCain, M.D., Wilson, NC
Glenn D. Moak, M.D., Indianapolis, IN
James H. Peedin, Jr., M.D., Burgaw, NC
J. Olin Perritt, Jr., M.D., Wilmington, NC
John W. Sawyer, M.D., Wilmington, NC
Charles R. Vernon, M.D., Wrightsville, NC
John L. Watters, M.D., Raleigh, NC
John R. Wilkinson, Jr., M.D., Hickory, NC

CLASS OF 1951
Number in class: 45
Percent donors: 22%
Luther L. Anthony, Jr., M.D., Gastonia, NC
John S. Barlow, M.D., Concord, MA
William B. Blythe II, M.D., Chapel Hill, NC
A. James Coppridge, M.D., Durham, NC
Hal B. Hawkins, M.D., Wilkesboro, NC
Karl L. Lawing, M.D., Lincolnton, NC
Murdoch R. McKeithen, M.D., Laurinburg, NC
Luther W. Oehlbeck, Jr., M.D., LaBelle, FL
Charles C. Stamey, M.D., Winston-Salem, NC
Jack W. Wilkerson, M.D., Greenville, NC

CLASS OF 1952
Number in class: 5
Percent donors: 20%
Charles H. Powell, M.D., Palm Coast, FL

CLASS OF 1954
Number in class: 35
Percent donors: 40%
Leland S. Averett, Jr., M.D., High Point, NC
Paul H. Brigman, M.D., High Point, NC
Charles B. Fulghum, Jr., M.D., Atlanta, GA
Sara L. Hoyt, M.D., Rome, GA
Robert S. Jones, M.D., Shelby, NC
James C. Parke, Jr., M.D., Charlotte, NC
Cornelius T. Partrick, M.D., Washington, NC
Allen Spencer, M.D., Salisbury, NC
Nat H. Swann, Jr., M.D., Signal Mountain, TN
H. Durwood Tyndall, M.D., Goldsboro, NC
William H. Weinel, Jr., M.D., Wilmington, NC
Edward S. Williams, Jr., M.D., Pine Knoll Shores, NC
Virgil A. Wilson, M.D., Winston-Salem, NC
A. Donald Wolff, M.D., Clemmons, NC

CLASS OF 1955
Number in class: 52
Percent donors: 56%
Julian S. Albergotti, Jr., M.D., Charlotte, NC
Robert G. Brame, M.D., Charlotte, NC
Ralph E. Brooks, Jr., M.D., High Point, NC
Walter E. Deyton, M.D., Danville, VA
Griggs C. Dickson, M.D., Charlotte, NC
Presley Z. Dunn, Jr., M.D., Greensboro, NC
Charles F. Eddinger, M.D., Spencer, NC
John W. Foust, M.D., Charlotte, NC
J. Eugene Glenn, M.D., Jacksonville, FL
Ira D. Godwin, M.D., Fairfax, VA
Robert L. Golby, M.D., Durham, NC
James W. Hayes III, M.D., Burlington, NC
Charles L. Herring, M.D., Kinston, NC
William D. Huffines, M.D., Chapel Hill, NC
Samuel G. Jenkins, Jr., M.D., Elizabeth City, NC
Robert C. Jordan, Jr., M.D., Sanford, NC
Samuel B. Joyner, M.D., Greensboro, NC
A. Smith Lineberger, Jr., M.D., Alexandria, VA
William L. London IV, M.D., Durham, NC
Lloyd C. McCaskill, M.D., Maxton, NC
J. Thaddeus Monroe, Jr., M.D., Chapel Hill, NC
G. Irvin Richardson, M.D., Reidsville, NC
Oliver F. Roddey, Jr., M.D., Charlotte, NC
Mary F. Rood, M.D., Raleigh, NC
Palmer F. Shelburne, M.D., Greensboro, NC
Henry L. Stephenson, Jr., M.D., Washington, NC
Robert L. Summerlin, Jr., M.D., Dublin, NC
G. Reginald Tucker, Jr., M.D., Emerald Isle, NC
W. Wallace White, M.D., Cincinnati, OH

CLASS OF 1956
Number in class: 52
Percent donors: 50%
Richard A. Boyd, M.D., Statesville, NC
Wade M. Brannan, M.D., Port Arthur, TX
John W. Deyton, Jr., M.D., Jacksonville, NC
Margareta J. Duncan, M.D., Dunn, NC
Stacy A. Duncan, Jr., M.D., Dunn, NC
William E. Easterling, Jr., M.D., Chapel Hill, NC
John T. Evans, M.D., Chattanooga, TN
Charles W. Fowler III, M.D., Orlando, FL
Alexander F. Goley, M.D., Burlington, NC
John L. Hazlehurst III, M.D., Asheville, NC
Otis M. Lowry, M.D., Spring Hope, NC
Malcolm McLean, M.D., Charlotte, NC
William W. McLendon, M.D., Chapel Hill, NC
J. Doyle Medders, M.D., Louisburg, NC
Robert L. Murray, M.D., Roanoke, VA
John W. Ormand, Jr., M.D., Wilmington, NC
Clifton G. Payne, M.D., Reidsville, NC
Thomas W. Payne, M.D., Newport News, VA
Francis D. Pepper, Jr., M.D., Winston-Salem, NC
Carey J. Perry, M.D., Louisburg, NC
Senator William R. Purcell, M.D., Laurinburg, NC
James F. Richards, Jr., M.D., Orlando, FL
Mark W. Roberts, M.D., La Jolla, CA
John W. Vassey, M.D., Raleigh, NC
Garland E. Wampler, M.D., Burnsville, NC
Leonard S. Woodall, M.D., Smithfield, NC

CLASS OF 1957
Number in class: 51
Percent donors: 47%
H. John Bradley, Jr., M.D., Greensboro, NC
James H. Burrus, M.D., Shelby, NC
James R. Clapp, M.D., Durham, NC
Robert S. Cline, M.D., Sanford, NC
Luther H. Clontz, M.D., Morganton, NC
William P. Cornell, M.D., Phoenix, AZ
George S. Edwards, Sr., M.D., Raleigh, NC
John K. Farrington, M.D., High Point, NC
Eric L. Fearrington, M.D., Greenville, NC
J. Grayson Hall, M.D., Dobson, NC
Bennett A. Hayes, Jr., M.D., Fayetteville, NC
Jack B. Hobson, M.D., Charlotte, NC
J. Paul Hurst, Jr., M.D., Rydal, PA
George L. Irvin III, M.D., Coral Gables, FL
Harry L. Johnson, Jr., M.D., Lenoir, NC
Richard V. Liles, Jr., M.D., Albemarle, NC
Harvey A. Page, M.D., Pikeville, KY
Thaddeus H. Pope, Jr., M.D., Crawfordsville, IN
Irl T. Sell III, M.D., Nathrop, CO
Nathaniel L. Sparrow, M.D., Raleigh, NC
James H. M. Thorp, M.D., Rocky Mount, NC
Gerald M. Wagger, M.D., Palo Alto, CA
Earl P. Welch, Jr., M.D., Winston-Salem, NC
Dr. Benson R. Wilcox, Chapel Hill, NC

CLASS OF 1958
Number in class: 50
Percent donors: 52%
Clarence A. Bailey, Jr., M.D., Durham, NC
D. Carl Biggers, M.D., Asheville, NC
John I. Brooks, Jr., M.D., Tarboro, NC
Rebecca H. Buckley, M.D., Durham, NC
M. Paul Capp, M.D., Tucson, AZ
Andrew J. Courts, M.D., Greensboro, NC
David B. Crosland, M.D., Mt. Pleasant, NC
George E. Ennis, M.D., Hickory, NC
Nancy P. Fawcett, M.D., Pembroke Pines, FL
Carl A. Furr, Jr., M.D., Concord, NC
Thomas M. Haizlip, M.D., Raleigh, NC
Robert F. Hook, M.D., Jacksonville, FL
John S. Howie, M.D., Raleigh, NC
Allen R. Koenig, M.D., Cos Cob, CT
Charles T. Macy, M.D., Lansdale, PA
Vernon W. McFalls, M.D., High Point, NC
John A. McGee, Jr., M.D., Charlotte, NC
Luther S. Nelson, M.D., Amarillo, TX
T. Lane Ormand, M.D., Monroe, NC
Barry R. Pate, M.D., Asheville, NC
Dewey H. Pate, M.D., Raleigh, NC
J. Richard Patterson, M.D., Danville, VA
W. Robert Story, M.D., Charlotte, NC
Charles W. Stout, M.D., Asheboro, NC
B. Everett Thompson, Jr., M.D., Cary, NC
Paul M. Weeks, M.D., Wrightsville Beach, NC

CLASS OF 1959
Number in class: 50
Percent donors: 30%
D. Whitaker Davis, M.D., Wadesboro, NC

A. Eugene Douglas, Jr., M.D., Bald Head Island, NC
Otis N. Fisher, Jr., M.D., Greensboro, NC
Joel S. Goodwin, M.D., Salisbury, NC
Robert L. Green, Sr., M.D., Winston-Salem, NC
O. James Hart, Jr., M.D., Mocksville, NC
Morris A. Jones, Jr., M.D., Durham, NC
David L. Kelly, Jr., M.D., Winston-Salem, NC
Edward L. Mitchell, M.D., Prospect, KY
Julian W. Selig, Jr., M.D., Elizabeth City, NC
Martha K. Sharpless, M.D., Greensboro, NC
Shahane R. Taylor, Jr., M.D., Greensboro, NC
Charles E. Trado, Jr., M.D., Hickory, NC
C. Carl Warren, Jr., M.D., Charlotte, NC
R. Lee West, M.D., Greenville, NC

CLASS OF 1960
Number in class: 63
Percent donors: 29%
William B. Abernethy, Jr., M.D., Gastonia, NC
Charles P. Eldridge, Jr., M.D., Houston, TX
J. Thomas Fox, Jr., M.D., Valle Crucis, NC
Robert H. Hackler III, M.D., Richmond, VA
James R. Harper, M.D., Durham, NC
Falls L. Harris, M.D., Greenville, SC
G. Wyckliffe Hoffler, M.D., Titusville, FL
J. Gray McAllister III, M.D., Chapel Hill, NC
K. Franklin McCain, M.D., Winston-Salem, NC
Duncan S. Owen, Jr., M.D., Richmond, VA
Robert B. Payne, M.D., Mooresville, NC
Jerry M. Petty, M.D., Charlotte, NC
Jean R. Poirier, M.D., Frederick, MD
Elizabeth V. Raft, M.D., Durham, NC
Elliott Solomon, M.D., Rye Brook, NY
G. Thomas Strickland, Jr., M.D., Baltimore, MD
P. Burt Veazey, M.D., Sarasota, FL

CLASS OF 1961
Number in class: 51
Percent donors: 45%
Robert M. Boerner, M.D., Asheville, NC
Charles O. Boyette, Sr., M.D., Belhaven, NC
H. David Bruton, M.D., Carthage, NC
Franklin D. Clontz, M.D., Longwood, FL
Cosmo A. Difazio, M.D., Ph.D., Charlottesville, VA
William S. Gibson, Jr., M.D., Riverside, PA
John C. Graham, Jr., M.D., Kitty Hawk, NC
Richard W. Hudson, M.D., Bayboro, NC
Richard D. Jordan, M.D., Salisbury, NC
William H. Kouri, M.D., Charlotte, NC
Lloyd D. Lohr, M.D., Lexington, NC
Zell A. McGee, M.D., Salt Lake City, UT
W. Stacy Miller, M.D., Raleigh, NC
William W. Morgan, Jr., M.D., Reno, NV
A. Ray Newsome, M.D., Winston-Salem, NC
C. Rex O'Briant, M.D., Dallas, TX
James H. Robinson, M.D., Wilmington, NC
W. Ray Samuels, M.D., Kiawah Island, SC
Edward A. Sharpless, M.D., Greensboro, NC
W. Ferrell Shuford, Jr., M.D., Wilmington, NC
Joshua Taylor, M.D., Washington, NC
Zebulon Weaver III, M.D., Asheville, NC
Donn A. Wells, M.D., Sea Ranch Lakes, FL

CLASS OF 1962
Number in class: 53
Percent donors: 45%
Karl L. Barkley, M.D., Greensboro, NC
Oscar H. Bolch, Jr., M.D., San Diego, CA
William S. Bost, Jr., M.D., Greenville, NC
Joseph H. Callicott, Jr., M.D., Lynchburg, VA
Lawrence M. Cutchin, M.D., Tarboro, NC
Jerry J. Eller, M.D., Livingston, AL
Thomas W. Gable, M.D., Atlanta, GA
Marion W. Griffin, M.D., Asheboro, NC
Frederick D. Hamrick III, M.D., Lynchburg, VA
H. Gerard Hartzog III, M.D., Raleigh, NC
Ray M. Hayworth, M.D., Knoxville, TN
Edward M. Hedgpeth, Jr., M.D., Durham, NC
Charles M. Hicks, M.D., Wilmington, NC
Arthur S. Lynn, Jr., M.D., Conover, NC
J. Newton MacCormack, M.D., Raleigh, NC
John L. Monroe, M.D., Pinehurst, NC
Kenny J. Morris, M.D., Wilmington, NC
William J. Murray, M.D., Durham, NC
Carl S. Phipps, M.D., Winston-Salem, NC

Carl Phipps, MD '62, of Winston-Salem, chats with Theresa and Franklin Clark, MD '73, of Fayetteville, at the Fall Medical Alumni Banquet.

Alton A. Reeder, M.D., High Point, NC
Lambros C. Rigas, M.D., Rome, GA
D. Emerson Scarborough, Jr., M.D., Raleigh, NC
Fuller A. Shuford, M.D., Asheville, NC
Roy V. Varner, M.D., Houston, TX

CLASS OF 1963
Number in class: 53
Percent donors: 57%
William P. Algary, M.D., Greenville, SC
Quincy A. Ayscue, M.D., Norfolk, VA
Neil C. Bender, M.D., New Bern, NC
Charles L. Cooke, M.D., Richmond, VA
Robert J. Cowan, M.D., Winston-Salem, NC
John W. Dalton, Jr., M.D., Santa Monica, CA
Dave M. Davis, M.D., Atlanta, GA
William B. Deal, M.D., Birmingham, AL
J. Michael Gallagher, M.D., Seattle, WA
J. Phillip Goodson, M.D., Raleigh, NC
Ira M. Hardy II, M.D., Greenville, NC
George C. Hemingway, Jr., M.D., Tarboro, NC
William O. Jolly III, M.D., Albemarle, NC
W. Bryan Latham, M.D., Miami, FL
Charles I. Loftin III, M.D., Roanoke, VA
Walter F. Mauney, M.D., Birmingham, AL
J. M. McLean, M.D., Peoria, IL
Eugene W. Pate, Jr., M.D., Kinston, NC
Tom S. Rand, M.D., Wilson, NC
Charles J. Sawyer III, M.D., Aboskie, NC
Samuel E. Scott, M.D., Burlington, NC
Richard W. Shermer, M.D., Chapel Hill, NC
David W. Sillmon, M.D., Greensboro, NC
Jerry A. Smith, M.D., Memphis, TN
William H. Taylor, M.D., Cocoa, FL
William E. Thornton, M.D., Friendswood, TX
W. Landis Voigt, M.D., Edenton, NC
Roy A. Weaver, M.D., Fayetteville, NC
Jack H. Welch, M.D., Greenville, NC
David R. Williams, Sr., M.D., Thomasville, NC

CLASS OF 1964
Number in class: 55
Percent donors: 25%
Bruce H. Berryhill, M.D., Charlotte, NC
Harry L. Broome, M.D., Alpharetta, GA
John R. Cella, M.D., Raleigh, NC
James F. Earnhardt, M.D., Winston-Salem, NC
Clyde M. Gaffney III, M.D., Greer, SC
G. Patrick Henderson, Jr., M.D., Southern Pines, NC
D. Charles Hunsinger, M.D., Kinston, NC
Ernest W. Hunt, Jr., M.D., La Jolla, CA
Mickael M. Kannan, M.D., Richmond, VA
Jefferys A. MacFie, Jr., M.D., Greenville, SC
Noel B. McDevitt, M.D., Southern Pines, NC
Artus M. Moser, Jr., M.D., Swannanoa, NC
James W. Rose, Jr., M.D., Madison, WI
Wayne B. Venters, M.D., Hampstead, NC

CLASS OF 1965
Number in class: 57
Percent donors: 28%
Daniel E. Brown, M.D., Raleigh, NC
Takey Crist, M.D., Jacksonville, NC
Marvin R. Goldstein, M.D., Scottsdale, AZ
Robert L. Grubb, Jr., M.D., Glendale, MO
Joe W. Hardison, M.D., Fayetteville, NC
Alexander C. Hattaway III, M.D., Raleigh, NC
Joe P. Hurt, M.D., Ph.D., Sylva, NC
Robert T. Kindley, M.D., Fort Walton Beach, FL
Sue M. Kirkpatrick, M.D., Scotts Valley, CA
Gordon B. Legrand, M.D., Raleigh, NC
Donald D. McNeill, Jr., M.D., Lenoir, NC
Peter A. Modrow, M.D., Raleigh, NC
Thomas L. Presson, M.D., Greensboro, NC
William F. Sayers, M.D., Winston-Salem, NC
Evin H. Sides III, M.D., Raleigh, NC
Williamson B. Strum, M.D., La Jolla, CA

CLASS OF 1966
Number in class: 63
Percent donors: 59%
J. Curtis Abell, M.D., Statesville, NC
Willis A. Archer, M.D., Rutherfordton, NC
Robert P. Barringer, M.D., Gastonia, NC
Robert H. Bilbro, M.D., Raleigh, NC
Paul L. Burroughs, Jr., M.D., Raleigh, NC
Timothy E. Cloninger, M.D., Charlotte, NC
George W. Cox, M.D., Atlanta, GA
John R. Crawford III, M.D., Salisbury, NC
J. Bernard Credle, M.D., Beaufort, SC
William M. Crutchfield, M.D., Elizabeth City, NC
Philip C. Deaton, M.D., Greensboro, NC
Wesley C. Fowler, Jr., M.D., Chapel Hill, NC
Robert C. Gibson III, M.D., Portland, OR
Cyrus L. Gray III, M.D., Hiawassee, GA
George T. Grigsby, Jr., M.D., Holly Springs, NC
Carol H. Hackett, M.D., Mercer Island, WA
Lawrence D. Henry, M.D., Jefferson City, MO
Howard T. Hinshaw, M.D., Charlotte, NC
N. Neil Howell, M.D., Charlotte, NC
Thomas J. Koontz, M.D., Winston-Salem, NC
Hugh A. McAllister, Jr., M.D., Houston, TX
Edgar M. McGee, M.D., Lexington, KY
Peter L. Morris, M.D., Santa Barbara, CA
Duncan Morton, Jr., M.D., Charlotte, NC
Hugh G. Murray, Jr., M.D., Atlanta, GA
R. Kenneth Pons, M.D., Medford, OR
James A. Pressly, M.D., Charlotte, NC
Surry P. Roberts, M.D., Raleigh, NC
Charles K. Scott, M.D., Haw River, NC
Robert E. Sevier, M.D., Greensboro, NC
J. Lewis Sigmon, Jr., M.D., Davidson, NC
H. Lee Smyre, M.D., Greer, SC
E. Walker Stevens, Jr., M.D., Greensboro, NC
Donald A. Thomas, M.D., Seneca, SC

Medical Foundation board member Charlie Powell (right) and his wife Carolyn enjoy a story from Dean Jeffrey Houpt.

W. Beverly Tucker III, M.D., Henderson, NC
James H. Whicker, M.D., Raleigh, NC
James A. Yount, M.D., Charlotte, NC

CLASS OF 1967
Number in class: 67
Percent donors: 55%
Phillip G. Arnold, M.D., Rochester, MN
George R. Avant, M.D., Nashville, TN
Rudy W. Barker, M.D., Durham, NC
Gerald W. Blake, M.D., Raleigh, NC
Thomas W. Bundy, M.D., Chambersburg, PA
Vartan A. Davidian, Jr., M.D., Raleigh, NC
C. Allan Eure, M.D., Raleigh, NC
David A. Evans, M.D., Monroe, NC
R. Donald Garrison, M.D., Jacksonville, FL
Jeremy W. Greene, M.D., San Antonio, TX
Harvey J. Hamrick, M.D., Chapel Hill, NC
L. Fuller Honeycutt, Jr., M.D., Raleigh, NC
T. Ruffin Hood, M.D., Brentwood, TN
James D. Hundley, M.D., Wilmington, NC
Linda H. Jackson, M.D., Arden, NC
William H. Jarman, Jr., M.D., Gastonia, NC
Scott G. Kleiman, M.D., Marietta, GA
Frank W. Leak, Sr., M.D., Clinton, NC
Hugh T. Lefler, Jr., M.D., Fort Worth, TX
Clifford T. Lewis, Jr., M.D., Wilmington, NC
Robert W. Madry, Jr., M.D., Corpus Christi, TX
W. Jason McDaniel, Jr., M.D., Raleigh, NC
Joseph T. McLamb, M.D., Goldsboro, NC
Drs. Sharon N. and G. Farrell McNeely, Gainesville, FL
Donald H. McQueen III, M.D., Rock Hill, SC
Harold B. Owens, M.D., Danville, VA
H. Richard Parker, Jr., M.D., Greensboro, NC
Gerald Pelletier, Jr., M.D., New Bern, NC
Bruce A. Phillips, Jr., M.D., Elizabethtown, NC
Albert L. Roper II, M.D., Norfolk, VA
Douglas M. Russell, M.D., Goldsboro, NC
James H. Spruill, M.D., Jackson, TN
Henry C. Thomason, Jr., M.D., Gastonia, NC
Jay R. Tuttle, M.D., Vincennes, IN
M. Dennis Wachs, M.D., Bedford, NH
Benjamin K. Ward, Jr., M.D., Florence, SC
Barry M. Welborne, M.D., Charlotte, NC
Rhoderick T. Williams, Jr., M.D., Roanoke Rapids, NC

CLASS OF 1968
Number in class: 61
Percent donors: 56%
Joseph P. Archie, Jr., M.D., Raleigh, NC
Lucius Blanchard, Jr., M.D., Las Vegas, NV
Philip D. Coleman, M.D., Washington, NC
Alan Davidson III, M.D., Greensboro, NC
Matthew R. Friedman, M.D., Longmeadow, MA
Terry D. Golden, M.D., Atlanta, GA
Theodora L. Gongaware, M.D., Savannah, GA
Joseph W. Griffin, Jr., M.D., Augusta, GA
W. F. Hancock, Jr., M.D., Burlington, NC
Hoke F. Henderson, Jr., M.D., Columbia, SC
Thomas L. Henley, M.D., Solana Beach, CA
William O. Kearse, Jr., M.D., Lubbock, TX
John L. Kirkland III, M.D., Houston, TX
Edward W. Kouri, M.D., Charlotte, NC
Jerold E. Lancourt, M.D., Dallas, TX
George G. Lothian, M.D., Reidsville, NC
Patrick T. Malone, M.D., Roswell, GA
John C. Markham III, M.D., Augusta, GA
Robert G. Martin, M.D., Southern Pines, NC
David J. Reese II, M.D., Alexandria, VA
David M. Rubin, M.D., Greensboro, NC
Carole W. Samuelson, M.D., Birmingham, AL
E. Franklin Shavender, M.D., Durham, NC
Robert B. Shearin, M.D., Rockville, MD
George S. Stretcher, M.D., Spartanburg, SC
William S. Teachey, M.D., Virginia Beach, VA
F. Charles Tucker, Jr., M.D., Gulf Breeze, FL
Robert C. Vanderberry, Jr., M.D., Raleigh, NC
J. Allen Whitaker III, M.D., Wilson, NC
Walter C. Whitehurst, Jr., M.D., Jacksonville, NC
Thomas H. Whitley, Jr., M.D., Danville, VA
Roberta G. Williams, M.D., Chapel Hill, NC
Jerry C. Woodard, M.D., Wilson, NC
Richard H. Wray III, M.D., Morehead City, NC

CLASS OF 1969
Number in class: 63
Percent donors: 40%
H. Wallace Baird, M.D., Greensboro, NC
J. Hugh Bryan, M.D., Fayetteville, NC
Don C. Chaplin, M.D., Burlington, NC
Bertram W. Coffer, M.D., Raleigh, NC
R. Samuel Cromartie III, M.D., Ormand Beach, FL
Andrew Davidson, M.D., New Bern, NC
C. Ellis Fisher, M.D., Gastonia, NC
Hugh J. Grant, Jr., M.D., Raleigh, NC
Thomas R. Griggs, M.D., Hillsborough, NC
Edward W. Haselden, Jr., M.D., Columbia, SC
C. Craig Heindel, Sr., M.D., Portsmouth, NH
John G. Johnston, M.D., Charlotte, NC
Dr. and Mrs. William R. Jordan, Fayetteville, NC
Richard A. Keever, M.D., High Point, NC
C. Dayton Kirk, M.D., Raleigh, NC
Edward H. Lesesne, Jr., M.D., Canton, NC
Donald M. MacQueen, M.D., Wilmington, NC
Cynthia S. McMillan, M.D., Farragut, TN
David W. Pearsall, Jr., M.D., Greenville, NC
H. Harris Pittman, M.D., Cave Springs, GA
Joseph D. Russell, M.D., Wilson, NC
J. Franklin Sanderson, Jr., M.D., Hampton, VA
James W. Snyder, M.D., Wilmington, NC
Karen Campbell Sorrels, M.D., Midlothian, VA
Nelson B. Watts, M.D., Atlanta, GA

CLASS OF 1970
Number in class: 71
Percent donors: 49%
William C. Allsbrook, Jr., M.D., Martinez, GA
Charles M. Almond, M.D., Wilmington, NC
H. Clifford Baggett, Jr., M.D., Rocky Mount, NC
Jerry C. Bernstein, M.D., Raleigh, NC
Robert G. Blair, Jr., M.D., New Bern, NC
William E. Byrd, M.D., Roanoke Rapids, NC
Harold H. Cameron, M.D., New Bern, NC
Daniel L. Crocker, Jr., M.D., Rocky Mount, NC
Charles E. Crumley, M.D., Lincolnton, NC
H. Shelton Earp III, M.D., Chapel Hill, NC
Mary H. Edwards, M.D., Pittsburgh, PA
Richard M. Freeman, M.D., Opelika, AL
James O. Goodwin, M.D., Henderson, NC
Joseph M. Harmon, M.D., Mount Pleasant, SC
John F. Hartness, Jr., M.D., Monroe, NC
Robert L. Hinkle, M.D., Lincolnton, NC
W. Borden Hooks, Jr., M.D., Mount Airy, NC
Donald D. Howe, M.D., Gastonia, NC
Dr. and Mrs. Mark G. Janis, Seal Beach, CA
Alexander R. Kehayes, M.D., Missoula, MT
C. Bryan Koon, Jr., M.D., Durham, NC
Frederick G. Kroncke, Jr., M.D., Rocky Mount, NC
Charles D. Lefler, M.D., Brevard, NC
James A. McQueen, M.D., Laurinburg, NC
Thomas W. Nicholson, M.D., Washington, NC
Dr. and Mrs. David A. Rendleman III, Raleigh, NC
Thomas A. Roberts, Jr., M.D., Charlotte, NC
James B. Sloan, M.D., Wilmington, NC
James D. Smithwick, M.D., Laurinburg, NC
T. Reed Underhill, M.D., New Bern, NC
Ross L. Vaughan, M.D., Raleigh, NC
E. Lance Walker, M.D., Littleton, CO
William J. Weatherly, M.D., Greensboro, NC
H. Grey Winfield III, M.D., Hickory, NC
James E. Winslow, Jr., M.D., Roxboro, NC

CLASS OF 1971
Number in class: 74
Percent donors: 38%
Robert A. Bashford, M.D., Chapel Hill, NC
Charles L. Carter, M.D., Memphis, TN
Coleman D. Carter, M.D., Charlotte, NC
James S. Coxe III, M.D., Raleigh, NC
Bertram C. Finch III, M.D., Charleston, SC
Jane M. Foy, M.D., Winston-Salem, NC
Mary Susan Fulghum, M.D., Raleigh, NC
James S. Fulghum III, M.D., Raleigh, NC
Joe E. Gaddy, Jr., M.D., Winston-Salem, NC
Charles W. Harshaw, Jr., M.D., Greensboro, NC
James S. Henning, M.D., Palo Alto, CA
William D. Kassens, Jr., M.D., Wilmington, NC
Michael B. King, M.D., Kinston, NC
Michael R. Knowles, M.D., Chapel Hill, NC
Robert L. Kuykendal, M.D., Cincinnati, OH
William A. Lambeth III, M.D., Raleigh, NC
James S. McFadden, M.D., Pinehurst, NC
Richard A. Nelson, M.D., Cordova, TN
Frederick S. Neuer, M.D., Emporia, KS
William B. Pittman, M.D., Rocky Mount, NC
R. Randolph Powell, M.D., Fox Point, WI
John O. Reynolds, Jr., M.D., Salisbury, NC
Charles H. Richman, M.D., Saratoga Springs, NY
V. O. Roberson III, M.D., High Point, NC
J. Allison Shivers, M.D., Asheville, NC
Sara H. Sinal, M.D., Winston-Salem, NC
John P. Surratt, M.D., Clinton, NC
David K. Wagoner, M.D., Charlotte, NC

CLASS OF 1972
Number in class: 71
Percent donors: 30%
Peter R. Bream, M.D., Jacksonville, FL
Randolph B. Cooke, M.D., Owego, NY
J. McNeill Gibson, M.D., Davidson, NC
M. Ann Groce, M.D., Kingsport, TN
Alger V. Hamrick III, M.D., Raleigh, NC

F. Christian Heaton, M.D., Raleigh, NC
Larry A. High, Jr., M.D., Rocky Mount, NC
John S. Hughes, M.D., New Haven, CT
Joseph A. Jackson, M.D., Pilot Mountain, NC
Howard S. Kroop, M.D., Woodbury, NJ
Constance F. Lefler, M.D., Ph.D., Fort Worth, TX
William E. Long, M.D., Newton, NC
John R. Lurain III, M.D., Oak Park, IL
John T. Manning, Jr., M.D., Houston, TX
John R. Partridge, M.D., Midlothian, VA
Scott Y. Pharr III, M.D., Williamsburg, VA
James S. Reed, M.D., Gig Harbor, WA
William J. Simons, M.D., Weaverville, NC
Ronald J. Stanley, M.D., Boone, NC
G. Dean Wilson, Jr., M.D., Johnson City, TN
J. Richard Young, M.D., Sherborn, MA

CLASS OF 1973
Number in class: 82
Percent donors: 41%
Frederic F. Bahnson III, M.D., Winston-Salem, NC
Charles E. Baker, Jr., M.D., Crossnore, NC
Kenneth Banks, M.D., Durham, NC
Ernest F. Beale, Jr., M.D., Bedford, NH
G. Ruffin Benton III, M.D., Brevard, NC
Stephen B. Billick, M.D., New York, NY
Jesse A. Blackman, M.D., Fremont, NC
Nady M. Cates III, M.D., Chapel Hill, NC
Franklin S. Clark III, M.D., Fayetteville, NC
Melvin L. Clayton, M.D., Ahoskie, NC
Frank E. Davis III, M.D., Roanoke Rapids, NC
Charles H. Edwards II, M.D., Charlotte, NC
John E. Estes, Jr., M.D., Zionville, NC
E. Ruffin Franklin, Jr., M.D., Raleigh, NC
Michael D. Gooden, M.D., Goldsboro, NC
Donald B. Goodman, Jr., M.D., Charlotte, NC
J. Blake Goslen III, M.D., Charlotte, NC
J. Michael Harper, M.D., Charlotte, NC
E. Earl Jenkins, Jr., M.D., Rock Hill, SC
Dennis R. Johnson, M.D., York, PA
Colin D. Jones, M.D., Winton, NC
Elisabeth Anderson Keller, M.D., Brookline, MA
James N. Martin, Jr., M.D., Ridgeland, MS
James L. Maynard, M.D., Rock Hill, SC
Dale A. Newton, M.D., Greenville, NC
Gary S. Niess, M.D., Charlotte, NC
David R. Patterson, M.D., Greensboro, NC
W. Henry Purvis, M.D., Sanford, NC
W. McLean Reavis, Jr., M.D., Lakeland, FL
Hugh G. Shearin, Jr., M.D., Raleigh, NC
Thomas N. Suciu, M.D., Yuma, AZ
George H. Underwood, Jr., M.D., Honolulu, HI
Robert R. Walther, M.D., New York, NY
William H. Whisnant, M.D., Bristol, TN

CLASS OF 1974
Number in class: 96
Percent donors: 35%
Robert M. Alsup, M.D., Winston-Salem, NC
W. Griffith Bowen, M.D., St. Louis, MO
William E. Bowman, Jr., M.D., Greensboro, NC
Douglas C. Brewer, M.D., Elm City, NC
Donald C. Brown, M.D., Cary, NC
David R. Clemmons, M.D., Chapel Hill, NC
William F. Cox, Jr., M.D., Evergreen, CO
Donna E. Frick, M.D., Chapel Hill, NC
Martha F. Goetsch, M.D., Portland, OR
Margaret A. Harper, M.D., Winston-Salem, NC
Stephen S. Hawkins, M.D., Hixson, TN
L. Hueston Hobbs, Jr., M.D., Harwood, MD
C. Norman Hurwitz, M.D., Fairfield, OH
Joseph M. Jenkins, M.D., Fayetteville, NC
William H. Katz, M.D., Auburn, ME
Kenneth R. Kulp, M.D., Raleigh, NC
John A. Lang III, M.D., Raleigh, NC
William D. Lee, Jr., M.D., Raleigh, NC
Thomas W. Littlejohn III, M.D., Winston-Salem, NC
Clarence E. Lloyd, Jr., M.D., Greensboro, NC
Sheppard A. McKenzie III, M.D., Raleigh, NC
W. Alton Murphy, M.D., Raleigh, NC
Forest P. Newman III, M.D., San Antonio, TX
Clyde Nolan, Jr., M.D., Greensboro, NC
H. Clifton Patterson III, M.D., Raleigh, NC
David A. Rockwell, M.D., Goldsboro, NC
Charles W. Smith, Jr., M.D., Little Rock, AK
Roger L. Snow, M.D., Boston, MA
David E. Tart, M.D., Hickory, NC
David T. Tayloe, Jr., M.D., Goldsboro, NC
John W. Thornton III, M.D., North Augusta, SC
Larry E. Warren, M.D., Chapel Hill, NC
Charles H. Weiss, M.D., Newton, MA
William G. Wilson, M.D., Charlottesville, VA

CLASS OF 1975
Number in class: 108
Percent donors: 34%
Bruce A. Berlow, M.D., Mystic, CT
William J. Blackley, M.D., Elkin, NC
Julian T. Brantley, Jr., M.D., Vienna, VA
Patrick G. Bray, M.D., Shaker Heights, OH
Samuel L. Bridgers II, M.D., Woodbridge, CT
E. Drew Bridges, M.D., Wake Forest, NC
Benjamin Douglas, M.D., Dillsboro, NC
William H. Edwards, M.D., Norwich, VT
Richard F. Fox, M.D., Greensboro, NC
Donald G. Gregg, M.D., Greenville, SC
Eric H. Helsabeck, M.D., Asheboro, NC
M. Lee Kirsch, M.D., Winston-Salem, NC
Ernest F. Krug III, M.D., Rochester, MI
David S. Lennon, M.D., Charlotte, NC
Robert H. Lester, M.D., Gastonia, NC
Howard A. McMahan, M.D., Marietta, GA
Michael W. Meriwether, M.D., Sarasota, FL
Frank H. Moretz, M.D., Asheville, NC
Edwin L. Morris, M.D., Franklin, NC
Wade H. Moser, Jr., M.D., Raleigh, NC
Dan A. Myers, M.D., Kinston, NC
W. Ronald Neal, M.D., Greensboro, NC
Marshall H. Odom, M.D., Boone, NC
Henry E. Parfitt, Jr., M.D., Fayetteville, NC
Charles J. Parker, M.D., Salt Lake City, UT
H. Worth Parker, M.D., Hanover, NH
James E. Peacock, Jr., M.D., Winston-Salem, NC
Claudia A. Peters, M.D., Kingston, Ontario
Hoke D. Pollock, M.D., Wilmington, NC
Joseph R. Pringle, Jr., M.D., Burlington, NC
Wanda L. Radford, M.D., Raleigh, NC
David M. Reid, M.D., Raleigh, NC
W. Paul Sawyer, M.D., Tallahassee, FL
Kenneth K. Steinweg, M.D., Fort Leonard Wood, MI
Hendricks H. Whitman III, M.D., New Vernon, NJ
E. Brooks Wilkins, M.D., Raleigh, NC
Kenneth H. Winter, M.D., Greensboro, NC

CLASS OF 1976
Number in class: 121
Percent donors: 38%
Janet C. Aiken, M.D., Gastonia, NC
Warwick Aiken III, M.D., Gastonia, NC
Paul D. Barry, M.D., Greensboro, NC
W. Bryson Bateman, Jr., M.D., Goldsboro, NC
Robert G. Berger, M.D., Chapel Hill, NC
Jean C. Bolan, M.D., Washington, DC
Richard A. Bowerman, M.D., Ann Arbor, MI
Barbara J. Campbell, M.D., Somerset, PA
Marjorie B. Carr, M.D., Raleigh, NC
Cornelius F. Cathcart, M.D., Henderson, NC
Edward L. Cattau, Jr., M.D., Germantown, TN
Susan T. Edwards, M.D., Norwich, VT
William H. Gamble, M.D., Greensboro, NC
Rita L. Gunter, M.D., Fayetteville, NC
Charles H. Hicks, M.D., Wrightsville Beach, NC
J. Lee Hoffer, M.D., Temple, TX
Robert H. Hutchins, M.D., Wilmington, NC
Walker A. Long, M.D., Chapel Hill, NC
Ross D. Lynch, M.D., Columbia, SC
R. Franklin Maness, M.D., Goldsboro, NC
Karen S. McCoy, M.D., Columbus, OH
McKay McKinnon, M.D., Kenilworth, IL
Michael E. Miller, M.D., Franklin, TN
B. Douglas Morton III, M.D., Macon, GA
Robert S. Moskalik, M.D., Coldwater, MI
E. Paul Nance, Jr., M.D., Nashville, TN
L. Andrew Nassef, Jr., M.D., Danville, PA
David B. Neeland, M.D., Montgomery, AL
Harold A. Nichols, M.D., Greensboro, NC
Kathleen Gallagher Oxner, M.D., Greenville, SC
James S. Parsons, M.D., Raleigh, NC
Charles V. Pope, M.D., Apex, NC
Douglas C. Privette, M.D., Greenville, NC
Sheldon M. Retchin, M.D., Midlothian, VA
Jimmy L. Rodden, M.D., Waynesville, NC
Howard S. Schub, M.D., Atlanta, GA
Robert S. Shapiro, M.D., Athens, GA
David F. Silver, M.D., Charlottesville, VA
Grady M. Stone, M.D., High Point, NC
Robert J. Tallaksen, M.D., Morgantown, WV
R. Henry Temple, M.D., Wilmington, NC
F. Ray Thigpen, M.D., Whiteville, NC
Ray A. Wertheim, M.D., Fairfax, VA
Mark E. Williams, M.D., Chapel Hill, NC
Richard L. Wing, M.D., Charlotte, NC
Solomon G. Zerden, M.D., Savannah, GA

CLASS OF 1977
Number in class: 123
Percent donors: 28%
Michael L. Barringer, M.D., Shelby, NC
John R. Black, M.D., Zionsville, IN
Jeffrey G. Brantley, M.D., Durham, NC
Clinton A. Briley, Jr., M.D., Wrightsville Beach, NC
Francis S. Collins, M.D., Ph.D., Rockville, MD
W. Sidney Comer, Jr., M.D., Raleigh, NC
Joseph E. Craft, M.D., Guilford, CT
Allen J. Daugird, M.D., Chapel Hill, NC
Meyer E. Dworsky, M.D., Huntsville, AL
Wayne D. Fogle, M.D., Knoxville, TN
Arthur L. Fritz, M.D., Exmore, VA
J. Robert Goins, M.D., Hickory, NC
Peter C. Gruenberg, M.D., Winter Park, FL
Sandra L. Hanson, M.D., Fort Walton Beach, FL
William L. Isley, M.D., Overland Park, KN
George M. Johnson, M.D., Charleston, SC
L. Lyndon Key, Jr., M.D., Hollywood, SC
Michael E. King, M.D., Winston-Salem, NC
Judith M. Kramer, M.D., Chapel Hill, NC
S. Ray Mitchell, M.D., Alexandria, VA
H. Grady Morgan, Jr., M.D., Wilmington, NC
Pamela A. Nelson, M.D., Raleigh, NC
Scott H. Norwood, M.D., Tyler, TX
Michael L. Pool, M.D., Knoxville, TN
Catherine M. Radovich, M.D., Gallup, NM
William H. Ryan III, M.D., Dallas, TX
Gretchen D. Sampson, M.D., Los Angeles, CA
Jerry L. Self, M.D., Shelby, NC
Howard J. Stang, M.D., Stillwater, MN
John H. Stanley, Jr., M.D., Wilmington, NC
Gregory Strayhorn, M.D., Ph.D., Chapel Hill, NC
Michael M. Ward, M.D., Wilmington, NC
Richard H. Weisler, M.D., Raleigh, NC
James S. Wells, Jr., M.D., Hillsborough, NC

CLASS OF 1978
Number in class: 124
Percent donors: 40%
Michael C. Alston, M.D., Murfreesboro, NC
James J. Bedrick, M.D., Charlotte, NC
John D. Benson, M.D., Cary, NC
Jane C. Burns, M.D., La Jolla, CA
Jean W. Carter, M.D., Raleigh, NC
Brian J. Cohen, M.D., Sudbury, MA
Cynthia D. Conrad, M.D., Ph.D., Branford, CT
Betty H. Crosby, M.D., Charlotte, NC
John D. Davis, Jr., M.D., Blowing Rock, NC
Gregory L. Drake, M.D., Fort Bragg, NC
George S. Edwards, Jr., M.D., Raleigh, NC
Martha L. Elks, M.D., Atlanta, GA
Susan D. Foreman, M.D., Greenville, NC
John B. Gordon III, M.D., La Jolla, CA
Jeane A. Grisso, M.D., Philadelphia, PA
James H. Hawkins, Jr., M.D., Burlington, NC
Michael D. Holland, M.D., Rocky Mount, NC
Cynthia R. Howard, M.D., Baltimore, MD
Dorothy M. Linster, M.D., Raleigh, NC
Luisa A. Lorenzo, M.D., Asheville, NC
Wade L. Lowry, M.D., Colleyville, TX
Allison D. Malter, M.D., Charlotte, NC
Jeffrey A. Margolis, M.D., Tappahannock, VA
Jeremy A. McCreary, M.D., Orinda, CA
W. Ronald Moffitt, M.D., Hendersonville, NC
Mark D. Monson, M.D., Spartanburg, SC
Cassandra F. Newkirk, M.D., Caldwell, NJ
James E. Nicholson III, M.D., Cary, NC
David H. Ogburn, M.D., Jacksonville, FL
Thomas L. Pope, Jr., M.D., Isle of Palms, SC

Donna L. Prather, M.D., Carrboro, NC
Richard L. Rumley, M.D., Greenville, NC
Peter A. Schlesinger, M.D., Roseville, MN
Stuart C. Segerman, M.D., Atlanta, GA
Thomas C. Shea, M.D., Chapel Hill, NC
Susan T. Snider, M.D., Spruce Pine, NC
Kathryn J. Stephens, M.D., Charlotte, NC
Alan D. Stiles, M.D., Chapel Hill, NC
Nancy L. Teaff, M.D., Charlotte, NC
Barry H. Teasley, M.D., Goldsboro, NC
Michael H. Thomason, M.D., Davidson, NC
John C. Trotter, M.D., Monroe, NC
Gregory H. Tuttle, M.D., Mebane, NC
William A. Walker, M.D., Charlotte, NC
Ralph L. Wall, Jr., M.D., Winston-Salem, NC
J. Byron Walthall, Jr., M.D., Charlotte, NC
David M. Warshauer, M.D., Chapel Hill, NC
Richard C. Worf, M.D., Winston-Salem, NC
Jesse G. Yarborough, Jr., M.D., Belmont, NC

CLASS OF 1979
Number in class: 127
Percent donors: 30%
Andrew H. Balder, M.D., Longmeadow, MA
Charles H. Barrier, M.D., Greenville, NC
Thomas A. Barringer III, M.D., Charlotte, NC
H. Robert Brashear III, M.D., Crozet, VA
Gail M. Capel, M.D., Schenectady, NY
Walter E. Daniel, Jr., M.D., Raleigh, NC
Douglas M. Delong, M.D., Ladysmith, WI
Elizabeth A. Eagle, M.D., Greensburo, NC
Allen R. Edwards, M.D., Statesville, NC
Sharon M. Foster, M.D., Raleigh, NC
Patricia K. Hill, M.D., Statesville, NC
Thomas R. Hinson, Jr., M.D., Clemmons, NC
Lawrence H. Hooper, Jr., M.D., Windsor, MI
Anne T. Keifer, M.D., Hershey, PA
John C. Keifer, M.D., Hershey, PA
Roger K. Kerley, M.D., Mount Airy, NC
David W. Kohl, M.D., St. Petersburg, FL
Steven Krumholz, M.D., West Palm Beach, FL
Alfred B. Little, M.D., Greensboro, NC
Charles E. Lownes, M.D., Greensboro, NC
Darlyne Menscer, M.D., Charlotte, NC
James G. Peden, Jr., M.D., Greenville, NC
Charles N. Reed, M.D., Hickory, NC
J. Mark Rowles, M.D., Atlanta, GA
James L. Sanderford, Jr., M.D., Winston-Salem, NC
David M. Siegel, M.D., Rochester, NY
Richard L. Sigmon, Jr., M.D., Charlotte, NC
William L. Stewart, M.D., Southern Pines, NC
R. Mark Stiegel, M.D., Charlotte, NC
Frances R. Thomas, M.D., Chicago, IL
Douglas B. Thomson, M.D., Bowling Green, KY
Paul A. Vadnais, M.D., Charlotte, NC
Lynn E. Wesson, M.D., Raleigh, NC
Anita S. Westafer, M.D., Gulf Breeze, FL
John M. Westafer, M.D., Gulf Breeze, FL
Mack W. White III, M.D., Charlotte, NC
C. Phillip Whitworth, M.D., Forest City, NC
Leonard S. Wojnowich, M.D., Savannah, GA
Norman F. Woodlief, M.D., Cedar Falls, IA

CLASS OF 1980
Number in class: 159
Percent donors: 25%
Paul J. Befanis, M.D., Satellite Beach, FL
Edward H Bertram III, M.D., Charlottesville, VA
Roger D. Billica, M.D., Houston, TX
Wilbur B. Carter, Jr., M.D., Chapel Hill, NC
Ernest B. Eason, M.D., Burlington, NC
Patricia T. Edkins, M.D., Chapel Hill, NC
W. Wells Edmundson, M.D., Raleigh, NC
Walter E. Egerton III, M.D., Aberdeen Proving Grounds, MD
Barry J. Freeman, M.D., Pacific Palisades, CA
John C. Gudger, M.D., Swansboro, NC
David D. Gutterman, M.D., Mequon, WI
Sandra K. Haigler, M.D., Lexington, KY
Carl L. Haynes, Jr., M.D., Kinston, NC
Mark A. Helvie, M.D., Ann Arbor, MI
J. Patrick Holland, M.D., Winston-Salem, NC
Kenneth E. Hollingsworth, M.D., Olney, MD
Janice D. Key, M.D., Hollywood, SC
Christopher M. Lakin, M.D., Charlotte, NC
Daniel M. Lewis, M.D., Charlotte, NC
Jimmy Locklear, M.D., Raleigh, NC
William L. Lowe, Jr., M.D., Winnetka, IL
E. John Markushewski, Jr., M.D., Huntsville, AL
Steven K. McCombs, M.D., Chapel Hill, NC
T. Michael O'Shea, Jr., M.D., Winston-Salem, NC
Cort A. Pedersen, M.D., Chapel Hill, NC
R. Brookes Peters IV, M.D., Tarboro, NC
Timothy A. Presnell, M.D., Richlands, VA
Petrie M. Rainey, M.D., Cheshire, CT
Judith L. Rissman, M.D., Lexington, MA
Suzanne Rogacz, M.D., Potomac, MD
Lyle S. Saltzman, M.D., Melbourne, FL
Mark A. Shapiro, M.D., Santa Moriches, NY
Paul C. Sorum, M.D., Schenectady, NY
James P. Srebro, M.D., Napa, CA
James V. Taylor III, M.D., Wilson, NC
Ben D. Thomas, Jr., M.D., Atlanta, GA
Donna W. Tilson, M.D., Louisville, KY
Margo F. Tolins, M.D., Minneapolis, MN
Jonathan P. Tolins, M.D., Minneapolis, MN
Jerry W. Withrow, M.D., Charlotte, NC

CLASS OF 1981
Number in class: 159
Percent donors: 27%
G. Williams Adams, M.D., Severna Park, MD
Paul S. Andrews, M.D., Chapel Hill, NC
Rebecca I. Ayres, M.D., Roswell, GA
Elizabeth S. Babcox, M.D., Shaker Heights, OH
David S. Barnes, M.D., Shaker Heights, OH
Alix L. Baxter, M.D., Gainesville, FL
Elizabeth P. Belch, M.D., Melbourne, FL
Craig R. Bennett, M.D., North Wilkesboro, NC
Stephen E. Buie, M.D., Asheville, NC
Graham W. Bullard, M.D., Cornelius, NC
David A. Crews, M.D., Greensboro, NC
Deborah H. Davis, M.D., Morganton, NC
David A. Goff, M.D., Raleigh, NC
David K. Harper, M.D., Concord, NC
William M. Herndon, Jr., M.D., Charlotte, NC
Edward K. Isbey III, M.D., Asheville, NC
Jane Lysko Isbey, M.D., Asheville, NC
Thomas S. Kaluzynski, M.D., Burnsville, NC
G. Wallace Kernodle, Jr., M.D., Burlington, NC
Douglas P. Kiel, M.D., Medfield, MA
Garland C. King, M.D., Franklin, NC
Robert G. Laney III, M.D., Shelby, NC
Leigh S. Lehan, M.D., Raleigh, NC
Robert E. Littleton, M.D., Raleigh, NC
Saundra A. Maass-Robinson, M.D., East Point, GA
John R. Mangum, M.D., Sanford, NC
Thomas H. McCoy, M.D., Charlotte, NC
William H. Merwin, Jr., M.D., Knoxville, TN
J. Thomas Newton, M.D., Clinton, NC
Larry C. Nickens, M.D., Goldsboro, NC
Paul M. Parker, M.D., Atlanta, GA
Ruth M. Parker, M.D., Atlanta, GA
Peter L. Pleasants, M.D., Providence, RI
John B. Plonk, Jr., M.D., Charlotte, NC
Larry B. Poe, M.D., Binghamton, NY
Scott L. Ramey, M.D., Panama City, FL
Carol R. Reid, M.D., Wilkesboro, NC
John W. Sanders III, M.D., Wilmington, NC
Timothy G. Saunders, M.D., Charlotte, NC
Elwood E. Stone, Jr., M.D., Cedar Rapids, IA
William W. Stuck, M.D., Columbia, SC
Ronald M. Walters, M.D., Whiteville, NC
Warden L. Woodard III, M.D., Charlotte, NC

CLASS OF 1982
Number in class: 153
Percent donors: 22%
Joseph L. Albright, Jr., M.D., Charlotte, NC
Mary John Baxley, M.D., Greensboro, NC
Barbara L. Bethea, M.D., Lillington, NC
Peter H. Bradshaw, M.D., Hickory, NC
J. Lawrence Brady, Jr., M.D., Charlotte, NC
Iley B. Browning III, M.D., Corpus Christi, TX
John D. Buckwalter, M.D., Durham, NC
Nancy C. Chescheir, M.D., Chapel Hill, NC
Rick J. Cornella, M.D., Myrtle Beach, SC
Bruce V. Darden II, M.D., Charlotte, NC
Cindy S. Dieringer, M.D., Camden, SC
Steven A. Dingeldein, M.D., Burlington, NC
Terry L. Forrest, M.D., Goldsboro, NC
Charles J. Fulp, Jr., M.D., Atlanta, GA
Stephen M. Hux, M.D., Winston-Salem, NC
Timothy O. Jenkins, M.D., Concord, NC
Thomas L. Johnson, Jr., M.D., Los Angeles, CA
Beverly N. Jones III, M.D., Winston-Salem, NC
Angela Kendrick, M.D., Aloha, OR
Virginia E. Killough, M.D., Marquette, MI
Paula M. Kreitzer, M.D., New York, NY
David W. Lee, M.D., Tarboro, NC
J. Terrell Massagee, M.D., Greensboro, NC
Bonnie B. McCafferty, M.D., Englewood, CO
Howard D. McClamrock, M.D., Baltimore, MD
Myrlin L. Murphy, M.D., Chapel Hill, NC
Jennifer C. Schaal, M.D., Greensboro, NC
Pamela K. Smith, M.D., Corpus Christi, TX
Eric D. Van Tassel, M.D., Asheville, NC
James G. Wall, M.D., Concord, NC
Kathryn L. Weise, M.D., Cleveland Heights, OH
Stanley A. Wilkins, Jr., M.D., Raleigh, NC
Fred H. Wilson, M.D., Greensboro, NC

CLASS OF 1983
Number in class: 150
Percent donors: 23%
William F. Alexander, M.D., Nashville, TN
Marsha F. Bertholf, M.D., Jacksonville, FL
James A. Bryan III, M.D., Chapel Hill, NC
Vincent K. Cheek, M.D., Greensboro, NC
Douglas W. Clark, M.D., Chapel Hill, NC
Ronald W. Cottle, M.D., Florence, SC
Cristin Babcock Cullander, M.D., Eugene, OR
Thomas C. Darrell, M.D., Fuquay-Varina, NC
Arthur Dworetz, M.D., Norfolk, VA
Michael B. Fischer, M.D., Glastonbury, CT
Robert L. Green, Jr., M.D., Lynchburg, VA
Kimberly S. Haltiwanger, M.D., Setauket, NY
G. Britton Harper, Jr., M.D., Cornelius, NC
Robert N. Headley, Jr., M.D., Lynchburg, VA
John M. Herion, M.D., Wilmington, NC
Cecilia G. Hipp, M.D., Charlotte, NC
Stephen W. Hipp, M.D., Charlotte, NC
Mark W. Jacokes, M.D., Nashville, TN
James D. Ladd, M.D., Asheville, NC
Margaret N. Morris, M.D., Asheville, NC
Jackie A. Newlin-Saleeby, M.D., Raleigh, NC
James C. Osborne, M.D., Greensboro, NC
Catherine C. Parrish, M.D., Ellicott City, MD
Wanda M. Peterson, M.D., Winston-Salem, NC
George A. Scharyj, M.D., Tucker, GA
Gail L. Shaw, M.D., Odessa, FL
Barbara H. Smith, M.D., Greensboro, NC
Eugene R. Soares, M.D., Dover, NH
C. Stephen Stinson, M.D., Winston-Salem, NC
Claudia J. Svara, M.D., Raleigh, NC
Deborah L. Taylor, M.D., Hilliard, OH
Deborah L. Tussing, M.D., Severna Park, MD
Gregory A. Underwood, M.D., Charlotte, NC
Louis A. Wesley, M.D., Absecon, NJ
Lawrence M. Wyner, M.D., Charleston, WV

CLASS OF 1984
Number in class: 144
Percent donors: 26%
James P. Alexander, Jr., M.D., Decatur, GA
Jay A. Anderson, M.D., Sumter, SC
Amelia F. Bell, M.D., Cornelius, NC
D. Antonio Bell, M.D., Cornelius, NC
Steven J. Citron, M.D., Dunwoody, GA
Charles L. Ewell, Jr., M.D., Bexley, OH
Margaret L. Gulley, M.D., San Antonio, TX
Ronald P. Hargrave, M.D., Mt. Pleasant, SC
James R. Harper, Jr., M.D., Wilmington, NC
Elgin Hobbs, Jr., M.D., Evans, GA
Michael J. Knight, M.D., North Hampton, NH
Elizabeth W. Koonce, M.D., Charlotte, NC
Robert P. Lineberger, M.D., Chapel Hill, NC
R. Glen Medders, M.D., Raleigh, NC
Howard W. Newell, Jr., M.D., Goldsboro, NC
R. Claiborne Noble, M.D., Raleigh, NC
Douglas W. Peed, M.D., Chapel Hill, NC
Alfred L. Rhyne III, M.D., Charlotte, NC

Richard G. Saleeby, Jr., M.D., Raleigh, NC
David L. Sappenfield, M.D., Durham, NC
Paul W. Sasser, M.D., Eden, NC
Mary A. Saunders, M.D., Springfield, IL
John M. Schoffstall, M.D., Glen Mills, PA
Jonathan L. Sheline, M.D., Durham, NC
Thomas C. Spangler, M.D., Winston-Salem, NC
Sharon R. Stephenson, M.D., Cary, NC
Nathan R. Strahl, M.D., Chapel Hill, NC
Richard C. Stuntz, Jr., M.D., Lake Wylie, SC
Denny C. Tate, M.D., Burlington, NC
Jean G. Taylor, M.D., Greensboro, NC
Paul E. Yiser, M.D., Clinton, NC
Robert A. Wainer, M.D., Greensboro, NC
Rolf B. Wallin, M.D., Fayetteville, NC
Mark L. Warren, M.D., Greenville, NC
Robert E. Wiggins, Jr., M.D., Asheville, NC
Daniel W. Williams III, M.D., Lewisville, NC
John W. Williams, Jr., M.D., San Antonio, TX

CLASS OF 1985
Number in class: 157
Percent donors: 27%
H. Richard Allen, Jr., M.D., Raleigh, NC
Sebastian R. Alston, M.D., Afton, VA
William H. Billica, M.D., Glendale, AZ
Clyde L. Brooks, Jr., M.D., Washington, NC
Leslie A. Bunce, M.D., Chapel Hill, NC
Kathleen M. Clarke-Pearson, M.D., Chapel Hill, NC
Jonathan S. Cohen, M.D., Signal Mountain, TN
Murray B. Craven III, M.D., Charlotte, NC
Samuel M. Cummings, M.D., Fort Walton Beach, FL
Cynthia B. Dunham, M.D., Greensboro, NC
Douglas S. Feltman, M.D., Coral Gables, FL
Kenneth E. Ferrell, Jr., M.D., Charlotte, NC
Catherine G. Fuller, M.D., Los Angeles, CA
David V. Janeway, M.D., Winston-Salem, NC
Bennie L. E. Jarvis, M.D., Rocky Mount, NC
Brentley D. Jeffries, M.D., Arden, NC
Margaret G. Johnson, M.D., Chapel Hill, NC
Peter M. Jordan, M.D., Greensboro, NC
David C. Joslin, M.D., Greenshoro, NC
Theodore C. Kerner, Jr., M.D., Lewisville, NC
John A. Kirkland, Jr., M.D., Charlotte, NC
Mark H. Knelson, M.D., Durham, NC
Frederick W. Lawler, Jr., M.D., Chapel Hill, NC
James W. Lederer, Jr., M.D., Winston-Salem, NC
Elizabeth S. McCuin, M.D., Roanoke, VA
Gwenn E. McLaughlin, M.D., Coral Gables, FL
Helen L. Miller, M.D., New Haven, CT
Stephen B. Mitchell, M.D., Dunn, NC
Terrence D. Morton, Jr., M.D., Charlotte, NC
Albert R. Munn III, M.D., Raleigh, NC
Albert J. Osbahr III, M.D., Waynesville, NC
Edward G. Sanders, M.D., Cary, NC
Joel E. Schneider, M.D., Raleigh, NC
Barbara L. Sheline, M.D., Durham, NC
Martin E. Sheline, M.D., Atlanta, GA
S. Patrick Stuart, Jr., M.D., Winston-Salem, NC
Claudia L. Thomas, M.D., Sands Point, NY
Howard S. Tuch, M.D., Tampa, FL
James A. Wainer, M.D., Apex, NC
Bradley K. Weisner, M.D., Charlotte, NC
Patti B. Wheeler, M.D., Highlands, NC
Randall W. Williams, M.D., Raleigh, NC
Sherrie E. Zweig, M.D., Chapel Hill, NC

CLASS OF 1986
Number in class: 154
Percent donors: 26%
Steven J. Baumrucker, M.D., Church Hill, TN
Andrew S. Blum, M.D., Elmhurst, IL
M. Todd Brown, M.D., Charlotte, NC
Mark A. Callahan, M.D., New York, NY
Mary Beth A. Carter, M.D., Wilmington, NC
Michael D. Carter, M.D., Wilmington, NC
Elizabeth T. Clark, M.D., Oak Park, IL
William M. Clark, Jr., M.D., Oak Park, IL
Jennifer P. Coursen, M.D., Mercer Island, WA
Lisa F. Dejarnette, M.D., Raleigh, NC
Herbert G. Garrison III, M.D, Greenville, NC
Lynne C. Garrison, M.D., Greenville, NC
David C. Goff, Jr., M.D., Winston-Salem, NC
Bruce E. Herman, M.D., Salt Lake City, UT
J. Curtis Jacobs, M.D., High Point, NC
Kim R. Jones, M.D., Chapel Hill, NC
Walton K. Joyner, Jr., M.D., Raleigh, NC
Jonathan K. Levine, M.D., Charlotte, NC
Lily J. Lou, M.D., Greensboro, NC
Leslie C. McKinney, M.D., Raleigh, NC
Al L. Melvin, M.D., Hermitage, TN
Eric W. Miller, M.D., Fayetteville, NC
Michael E. Norins, M.D., M.P.H., Greensboro, NC
Steven R. Olson, M.D., Greensboro, NC
David C. Pearce, M.D., Williamsburg, VA
Wayne R. Rackoff, M.D., Weston, FL
Mark C. Remington, M.D., Mercer Island, WA
Joel D. Rice, M.D., La Grande, OR
Grayson K. Rodgers, M.D., Birmingham, AL
James G. Ross, M.D., Baltimore, MD
Deborah A. Schwengel, M.D., Baltimore, MD
C. Wilson Sofley, Jr., M.D., Anderson, SC
John G. Spangler, M.D., Winston-Salem, NC
Cathy Jo W. Swanson, M.D., Roanoke, VA
Jo M. Travis, M.D., Greenville, MD
Deborah D. Viglione, M.D., Gulf Breeze, FL
Deborah T. Wadsworth, M.D., Des Peres, MO
L. Tyler Wadsworth III, M.D., Des Peres, MO
Stephen N. Wall, M.D., Chicago, IL
Jack H. Wolf, M.D., Chapel Hill, NC

CLASS OF 1987
Number in class: 160
Percent donors: 33%
M. Lisa Abernethy, M.D., Raleigh, NC
Linda R. Belhorn, M.D., Missouri City, TX
Thomas H. Belhorn, M.D., Ph.D., Missouri City, TX
William S. Blau, M.D., Ph.D., Chapel Hill, NC
David W. Boone, M.D., Raleigh, NC
Melissa W. Burch, M.D., Shiprock, NM
Gregor G. Cleveland, M.D., Ph.D., Florence, SC
David A. Coggins, M.D., Laconia, NH
James B. Collawn, M.D., Raleigh, NC
Carey G. Cottle, Jr., M.D., Greensboro, NC
Lochrane Grant Davids, M.D., Greenville, SC
Miriam H. Delyon, M.D., Newbury Park, CA
I. Gordon Early, Jr., M.D., Spartanburg, SC
James E. Edwards, M.D., Charleston, SC
Lee A. Furlong, M.D., Portland, OR
Ruth Ellen Gettes, M.D., Tampa, FL
Jama B. Greene, M.D., Rocky Mount, NC
J. Lewis Gregory, M.D., Mount Pleasant, SC
W. Stuart Hartley, M.D., Charlotte, NC
Andrea N. Hass, M.D., North Palm Beach, FL
Darrell E. Hester, M.D., Wilmington, NC
R. Page Hudson III, M.D., Williston, VT
Dudley A. Hudspeth, M.D., Paradise Valley, AZ
Dennis N. Jacokes, M.D., Raleigh, NC
R. Lee Jobe, M.D., Raleigh, NC
William W. King, M.D., Wilmington, NC
Dennis D. Kokenes, M.D., Charlotte, NC
Thomas E. Lawrence, M.D., Greensboro, NC
Susan R. Leivy, M.D., Roanoke, VA
Catherine K. Lineberger, M.D., Chapel Hill, NC
Jayne P. Maynor, M.D., Lumberton, NC
Cary C. McDonald, M.D., Chapel Hill, NC
Douglas E. Mesler, M.D., Andover, MA
Sherry L. Morris, M.D., Harrisonburg, VA
Lisle M. Nabell, M.D., Birmingham, AL
Frances A. Owl-Smith, M.D., Farmington, NM
John D. Regan, M.D., Winston-Salem, NC
Susan H. Rice, M.D., La Grande, OR
Mark K. Robbins, M.D., Charlottesville, VA
Joseph E. Roberts, Jr., M.D., Pembroke, NC
C. Alan Ross, M.D., Summerfield, NC
John R. Saltzman, M.D., Westborough, MA
Daniel M. Sappenfield, M.D., Charlotte, NC
Ronald B. Shapiro, M.D., Sioux Falls, SD
David L. Sheppard, M.D., Gulf Breeze, FL
Eve G. Spratt, M.D., Isle of Palms, SC
Robyn L. Stacy-Humphries, M.D., Charlotte, NC
Brian S. Strauss, M.D., High Point, NC
Victoria B. Teague, M.D., Alpharetta, GA
Michael R. Tranfaglia, M.D., West Newbury, MA
Jonathan J. Weiner, M.D., Durham, NC
Paul A. Young, M.D., San Antonio, TX

CLASS OF 1988
Number in class: 152
Percent donors: 39%
Darren F. Biehler, M.D., Mooresville, NC
C. Trent Blackman, M.D., Concord, NC
Jon P. Brisley, M.D., Roanoke, VA
Brenton T. Burkholder, M.D., Atlanta, GA
Jeffrey P. Campbell, M.D., Lexington, KY
J. Craig Charles, M.D., Winston-Salem, NC
Jack M. Cole, M.D., Moore, SC
Peter G. Dalldorf, M.D., Greensboro, NC
Keith A. Davis, M.D., San Diego, CA
Margie B. Eason, M.D., Martinsville, VA
Paul R. Eason, M.D., Martinsville, VA
Gail Q. Eddens, M.D., Leonia, NJ
Anne C. Ford, M.D., Cary, NC
C. Gaelyn Garrett, M.D., Nashville, TN
Kirsten M. Gross, M.D., Charlotte, NC
Frenesa K. Hall, M.D., Lilburn, GA
James R. Hallman, M.D., Chevy Chase, MD
Elizabeth H. Hamilton, M.D., Chapel Hill, NC
Mary C. Hefele, M.D., Portland, OR
David C. Hillsgrove, M.D., Mooresville, NC
Hunter A. Hoover, M.D., Charlotte, NC
David L. Ingram, M.D., Chapel Hill, NC
Sally Sockwell Ingram, M.D., Chapel Hill, NC
Allison L. Jacokes, M.D., Raleigh, NC
C. David Johnson, M.D., Asheville, NC
Michael D. Johnson, M.D., Goldsboro, NC

Loyalty Fund Associates (front row, from left) Edward Mitchell, MD '59, Steven McCombs, MD '80, Noel McDevitt, MD '64, andBenson McCutcheon, MD, Housestaff '60. Loyalty Fund Associate Franklin S. Clark, MD '73 (back row, center) is flanked by MAA President James D. Hundley,MD '67 and Dean Jeffrey Houpt.

Asha R. Kallianpur, M.D., Nashville, TN
Kathryn P. King, M.D., Carrboro, NC
Hannah R. Krigman, M.D., Galveston, TX
Ritsu Kuno, M.D., Midlothian, VA
Stuart J. Levin, M.D., Raleigh, NC
Bobby K. McCullen, Jr., M.D., Gastonia, NC
Anne M. McDonagh, M.D., Winston-Salem, NC
Marsden H. McGuire, M.D., Baltimore, MD
William S. McMahon, Jr., M.D., Homewood, AL
Catherine L. Munson, M.D., Fort Mill, SC
Philip J. Nahser, Jr., M.D., Greensboro, NC
Charles E. Parke, M.D., Greenville, SC
Mahrad Paymani, M.D., Pittsburgh, PA
Marjorie D. Paymani, M.D., Pittsburgh, PA
Julie T. Peek, M.D., Nashville, TN
Richard M. Peek, Jr., M.D., Nashville, TN
Gary L. Pellom, M.D., Durham, NC
John E. Perry III, M.D., Raleigh, NC
Cecelia B. Ramsey, M.D., Charlotte, NC
H. Kyle Rhodes, M.D., Wilmington, NC
Jeffrey E. Roller, M.D., Morganton, NC
George H. Sanders, M.D., Jamestown, NC
Charles D. Scheil, M.D., Hickory, NC
J. Robert Silver, M.D., Charlotte, NC
Mary Claire Skrzynski, M.D., Portland, OR
Rosemarie Sladek-Lawson, M.D., Reno, NV
Mary F. Smith, M.D., Chapel Hill, NC
McCrae S. Smith, M.D., Greensboro, NC
Mark C. Sturdivant, M.D., Bowie, MD
Kassell E. Sykes, M.D., Raleigh, NC
Roger P. Tart, M.D., Mobile, AL
David T. Thomas, M.D., Gastonia, NC
Michelle B. Vessely, M.D., Lake Oswego, OR
Spyro P. Vulgaropulos, M.D., Cary, NC
Edward W. Whitesides, M.D., Wilmington, NC
Elliott F. Williams, M.D., High Point, NC
Jean P. Zula, M.D., Durham, NC

CLASS OF 1989
Number in class: 140
Percent donors: 19%
Ann J. Barta, M.D., Apex, NC
Lisa K. Burke, M.D., Marietta, GA
Margaret F. Campbell, M.D., Greensboro, NC
Peter N. Copsis, M.D., Matthews, NC
Brenda K. Cowell, M.D., Charlotte, NC
Betsy M. English, M.D., Winston-Salem, NC
Daniel T. Goulson, M.D., Lexington, KY
Michael Gruenthal, M.D., Louisville, KY
Douglas B. Hansen, M.D., Rock Hill, SC
W. Randall Harris, IV, M.D., Greensboro, NC
Mary E. Hebert, M.D., Denison, TX
Cherri D. Hobgood, M.D., Hurdle Mills, NC
Thomas L. Jeffries, M.D., Raleigh, NC
Daniel M. Kaplan, M.D., Raleigh, NC
William H. Kelly, M.D., Fayetteville, NC
William L. Lawing, M.D., Winston-Salem, NC
Christopher D. McKinney, M.D., Kingsport, TN
James M. McLean, M.D., Winston-Salem, NC
H. Merle Miller, M.D., Boulder, CO
Gregory F. Murphy, M.D., Greenville, NC
Robert F. Noel, Jr., M.D., Corvallis, OR
G. Bradley Sherrill, M.D., Greensboro, NC
J. Daniel Singer, M.D., Greensboro, NC
Patricia G. Singer, M.D., Greensboro, NC
John H. Stephenson, M.D., Roswell, GA
Jon P. Woods, M.D., Madison, WI

CLASS OF 1990
Number in class: 154
Percent donors: 21%
Teresa T. Anderson, M.D., Albuquerque, NM
John E. Barkley, M.D., Charlotte, NC
Robert M. Bernstein, M.D., Seattle, WA
Anna P. Bettendorf, M.D., Wilmington, NC
Brian C. Brost, M.D., Ocean Springs, MS
Betsy E. Brown, M.D., Seattle, WA
Martyn J. Cavallo, M.D., Nashville, TN
Scott M. Cochrane, M.D., Amherst, MA
Todd S. Cowdery, M.D., Eastsound, WA
Edward M. Cox, Jr., M.D., Albany, NY
Terri W. Cummings, M.D., Stone Mountain, GA
Robert R. Ehinger, M.D., Greensboro, NC
John W. C. Entwistle III, M.D., Lafayette Hill, PA
W. Blake Garside, Jr., M.D., Nashville, TN
Russell D. Hall, M.D., Greenwood, SC
Stacey N. Ibrahim, M.D., Asheville, NC
Leigh H. Jones, M.D., Greensboro, NC
John H. Krege, M.D., Greensboro, NC
Daniel A. Landes, M.D., Charlottesville, VA
Linda J. Matthews, M.D., Huntersville, NC
Nicolette B. Naso, M.D., Florence, SC
William B. Naso, M.D., Florence, SC
Jill C. Obremsky, M.D., Cary, NC
Steven F. Parker, M.D., Ashburn, VA
Pamela J. Reitnauer, M.D., Chapel Hill, NC
J. Gardiner Roddey, Jr., M.D., Charlotte, NC
Patricia K. Roddey, M.D., Charlotte, NC
Ami J. Shah, M.D., Arlington, TX
Anne M. Traynor, M.D., Brookfield, WI
Craig Wierum, M.D., Nashville, TN
Adam S. Wilson, M.D., Ridgefield, WA
Mark W. Zimmerman, M.D., Cary, NC

CLASS OF 1991
Number in class: 149
Percent donors: 25%
Carrie D. Alspaugh, M.D., Morrisville, NC
Katrina H. Avery, M.D., Durham, NC
Mack N. Barnes III, M.D., Birmingham, AL
Fredrick J. Brody, M.D., Beachwood, OH
Robert C. Brooks, M.D., Pittsburgh, PA
N. Elaine Broskie, M.D., Salem, OR
Robert L. Cook, M.D., Pittsburgh, PA
Amy R. Cooley, M.D., Charlotte, NC
Amy C. Degnim, M.D., Leeds, MA
Amy A. Destefano, M.D., Cary, NC
Tiffany S. Flanagan, M.D., Chapel Hill, NC
Roy D. Flood, Jr., M.D., Fairfax, VA
Daniel P. Gianturco, M.D., Centreville, VA
Catherine M. Gordon, M.D., Newton, MA
William B. Inabnet III, M.D., New York, NY
Drew A. Jones, M.D., Greensboro, NC
Michele C. Larson, M.D., Goldsboro, NC
Michael J. Lucas, M.D., High Point, NC
Constantine G. Marousis, M.D., Sarasota, FL
Thomas L. Mason, M.D., Huntersville, NC
Todd D. McDiarmid, M.D., Greensboro, NC
Scott R. McDuffie, M.D., Sumter, SC
Jobe C. Metts III, M.D., Mount Pleasant, SC
Bryan R. Neuwirth, M.D., Hickory, NC
Linda M. Nicholas, M.D., Chapel Hill, NC
Laura H. Nutter, M.D., Ludington, MI
Vincent C. Phillips, M.D., Englewood, OH
Danny Silver, M.D., Raleigh, NC
Brian D. Smith, M.D., Shelby, NC
Michael F. Soboeiro, M.D., Wilmington, NC
C. Anthony Staley, M.D., Richfield, NC
Robert C. Vogler, M.D., Raleigh, NC
Andrew B. Wallach, M.D., New York, NY
Frederick M. Weeks, M.D., Gainesville, FL
Margaret W. Weeks, M.D., Gainesville, FL
Sherri A. Zimmerman, M.D., Cary, NC
Patricia J. Zurflieh, M.D., Portland, OR

CLASS OF 1992
Number in class: 155
Percent donors: 15%
Richard A. Bennett, M.D., Hollidaysburg, PA
J. Wesley Boyd, M.D., Northampton, MA
John C. Brockington, M.D., Birmingham, AL
Lisa A. Brone, M.D., Blacksburg, VA
Gerald E. Cooley, M.D., Charlotte, NC
Billie F. Cosgrove, M.D., Wilmington, NC
Christopher C. Cosgrove, M.D., Wilmington, NC
Cynthia K. Crews, M.D., Denver, CO
Mary J. Forbes, M.D., Raleigh, NC
Michael W. Kendall, M.D., Charlotte, NC
Barrett T. Kitch, M.D., Cambridge, MA
David A. Konanc, M.D., Raleigh, NC
Robert E. Larson, M.D., Goldsboro, NC
Thomas C. Logan, M.D., Owensboro, KY
William H. McAllister IV, M.D., Richmond, VA
Walter S. Morris III, M.D., Southern Pines, NC
Larry R. Padgett, Jr., M.D., Winter Haven, FL
Anthony M. Propst, M.D., Milton, MA
Carole C. Sawicki, M.D., Raleigh, NC
David H. Song, M.D., Norcross, GA
Thor O. Svendsen, M.D., Charlotte, NC
Stephen L. Tilley, M.D., Chapel Hill, NC
Rita E. Treanor Plemmons, M.D., Oakwood, GA
William V. Yount, M.D., Chicago, IL

CLASS OF 1993
Number in class: 156
Percent donors: 26%
Cynthia C. Bennett, M.D., Cramerton, NC
P. Scott Bennett, M.D., Cramerton, NC
Aleta A. Borrud, M.D., Rochester, MN
Erin E. Brewer, M.D., Sewanee, TN
David A. Browder, M.D., Rocky Mount, NC
Lesley B. Browder, M.D., Rocky Mount, NC
John S. Chase, M.D., Iowa City, IA
John D. Corey, M.D., Carrboro, NC
William L. Craig III, M.D., Raleigh, NC
Carolyn J. Dalldorf, M.D., Charlottesville, VA
Karla L. Debeck, M.D., Knoxville, TN
Therese M. Durkin, M.D., Dresser, WI
S. Lynn Gardner, M.D., Decatur, GA
G. Waldon Garriss III, M.D., Charlottesville, VA
Thomas M. Haizlip, Jr., M.D., Jackson, MS
Jennepher N. Hart, M.D., Charlotte, NC
Joseph I. Harwell, M.D., Hamden, CT
Raymond C. Hausch, M.D., Danville, PA
C. Anthony Kim, M.D., Decatur, GA
Laura S. Lenholt, M.D., Naples, FL
Lisa L. May, M.D., Chapel Hill, NC
David T. May, M.D., Chapel Hill, NC
Eugene H. Maynard, Jr., M.D., Smithfield, NC
Jennifer L. Miles, M.D., Oakland, CA
Karl H. Olson, M.D., Mountain Home, ID
John D. Phipps, M.D., Winston-Salem, NC

Loyalty Fund Scholars and merit award winners were special guests of the alumni association at the Fall banquet.

Edward M. Pickens, M.D., Chapel Hill, NC
John B. Piecyk, M.D., Canton, MA
Anthony D. Realini, M.D., Macon, GA
Stephen E. Ross, M.D., Denver, CO
Norman E. Sharpless, M.D., Newton, MA
Virginia J. Simnad, M.D., Charlottesville, VA
Tammy R. Spear, M.D., Summerfield, NC
Eric S. Stem, M.D., Fort Wayne, IN
Theodore T. Thompson, M.D., Abingdon, VA
Paige C. Walend, M.D., Phoenix, AZ
Brian R. Webster, M.D., Wilmington, NC
David A. Wells, M.D., Asheville, NC
M. Katherine White, M.D., Roanoke, VA
Melinda T. Wyatt, M.D., Raleigh, NC

CLASS OF 1994
Number in class: 150
Percent donors: 25%
Jonathan G. Austin, M.D., Charleston, SC
Kurt C. Bachmann, M.D., Birmingham, AL
Laura H. Bachmann, M.D., Birmingham, AL
William L. Barrett, M.D., Arlington, VA
Evan H. Black, M.D., Chapel Hill, NC
Michael E. Brame, M.D., Tampa, FL
Jane H. Brice, M.D., Chapel Hill, NC
Erich G. Buehler, M.D., Clyde, NC
Marlene S. Calderon, M.D., Ypsilanti, MI
Jennifer E. Charlton, M.D., Chapel Hill, NC
Peter T. Chu, M.D., Fletcher, NC
Tasha B. Ford, M.D., Memphis, TN
Lisa A. Gillespie, M.D., Decatur, GA
Natalie S. Gould, M.D., Oklahoma City, OK
Chandra S. Hollier, M.D., Carol Springs, FL
Jeffrey C. Johnson, M.D., Raleigh, NC
Kent W. Kercher, M.D., Charlotte, NC
Kenneth C. Lennon, M.D., Greenville, SC
Melissa M. Lutz, M.D.,Chapel Hill, NC
John L. Matthews, M.D., Durham, NC
Karen F. Mattocks, M.D., Columbia, SC
Michael W. Meredith, M.D., Durham, NC
J. Whitman Mims, M.D., Winston Salem, NC
Carolyn P. Misick, M.D., Ann Arbor, MI
Julia E. Norem-Coker, M.D., Fayetteville, NC
Susan M. Park, M.D., Littleton, CO
William L. Plyler, M.D., Hendersonville, NC
Claudia C. Prose, M.D., Chapel Hill, NC
Jennifer L. Reed, M.D., Norfolk, VA
Lisa A. Rietz, M.D., Salt Lake City, UT
John W. Rusher, M.D., Raleigh, NC
Nitin P. Shenoy, M.D., Hickory, NC
Nicholas B. Sliz, Jr., M.D., Nashville, TN
Carolyn T. Spencer, M.D., Gainesville, FL
Mary J. Teague, M.D., Peachtree City, GA
James A. Thompson, M.D., San Francisco, CA
Julie L. Wynne, M.D., Mobile, AL
Kathryn A. Yung, M.D., Lebanon, NH

CLASS OF 1995
Number in class: 165
Percent donors: 24%
Michael D. Applegate, M.D., Winston-Salem, NC
Marc D. Benevides, M.D., Carrboro, NC
Joshua E. Bernstein, M.D., Boston, MA
Barbra P. Bluestone, M.D., New York, NY
Paul H. Bowman, M.D., San Francisco, CA
Michele R. Casey, M.D., Winston-Salem, NC
Paul R. Chelminski, Jr., M.D., Chapel Hill, NC
David A. Chesnutt, M.D., Chapel Hill, NC
Elizabeth C. Deterding, M.D., Summerfield, NC
David B. Dorofi, M.D., Charlottesville, VA
Dietrich A. Gerhardt, M.D., Iowa City, IA
Marcus T. Higi, M.D., St. Petersburg, FL
John B. Holtzapple III, M.D., Eugene, OR
Charles L. Hulse, M.D., Burlington, VT
Bruce F. Israel, M.D., Durham, NC
Richard H. Jones, M.D.
Angela M. Keen, M.D., Salt Lake City, UT
Suzanne Lazorick, M.D., Chapel Hill, NC
E. Carwile LeRoy, Jr., M.D., Baltimore, MD
A. Kellett Letson III, M.D., Asheville, NC
Marilyn P. McLean, M.D., Charlotte, NC
Thomas L. O'Connell, Jr., M.D., Durham, NC
John W. Ogle III, M.D., Palo Alto, CA
Hiten K. Patel, M.D., Charlotte, NC
Monica L. Piecyk, M.D., Canton, MA
Laura M. Robert, M.D., Lynchburg, VA
Paul D. Rosen, M.D., New York, NY
Susan K. Seo, M.D., New York, NY
David R. Shaffer, M.D., St. Louis, MO
Dana L. Simpson, M.D., Charleston, SC
Amanda I. Slater, M.D., Worchester, MA
Jawal Suleman, M.D., West Columbia, SC
John W. Surles, M.D., Macclesfield, NC
Gregg M. Talente, M.D., Lexington, KY
Suzy S. Thompson, M.D., San Francisco, CA
Ketan K. Trivedi, M.D., Alexandria, VA
Kelly M. Waicus, M.D., Durham, NC
Deidra E. Woods, M.D., Washington, DC
Douglas J. Wyland, M.D., Durham, NC

CLASS OF 1996
Number in class: 157
Percent donors: 27%
Marc G. Amaya, M.D., New Castle, DE
Wendy S. Armore-Edds, M.D., Pittsboro, NC
Charles E. Bailey, M.D., Phoenix, AZ
David K. Becker, M.D., Chapel Hill, NC
Sara Beyer, M.D., Durham, NC
Ann-Bridget D. Bird, M.D., Baltimore, MD
Cynthia J. Brown, M.D., Waterbury, CT
Jason S. Burgess, M.D., Wrightsville Beach, NC
Michael J. Casey, M.D., Winston-Salem, NC
Margaret B. Collins, M.D., Pittsboro, NC
William J. Conner, M.D., Asheville, NC
Lorraine D. Cornwell, M.D., Carrboro, NC
Laura A. Culp, M.D., Chapel Hill, NC
Robert M. Dums, M.D., Roanoke, VA
Cory A. Dunnick, M.D., Nashville, TN
Joan E. East, M.D., Asheville, NC
Victoria L. Garriett, M.D., Detroit, MI
Anne George, M.D., Boston, MA
Shawn R. Gilbert, M.D., Durham, NC
Stacey S. Gilbert, M.D., Durham, NC
Douglas K. Graham, M.D., Highlands Ranch, CO
Brian E. Grogg, M.D., Rochester, MN
James A. Haaksma, M.D., Asheville, NC
Julie A. Haizlip, M.D., Chapel Hill, NC
Kimberly J. Hamilton, M.D., Hanover, NH
Letitia P. Kinloch, M.D., Albuquerque, NM
Scott M. Klenzak, M.D., Chapel Hill, NC
E. Allen Liles, Jr., M.D., Durham, NC
Michael H. Lowry, M.D., Greenville, NC
Jennifer A. Lutz, M.D., Chapel Hill, NC
Daniel F. Maher, M.D., San Diego, CA
R. Skyler McCurley, M.D., Elkridge, MD
John E. Milko, M.D., Ormond, FL
David P. Miller, Jr., M.D., Lebanon, NH
Leslie A. Montana, M.D., Chapel Hill, NC
Tracey E. O'Connell, M.D., Durham, NC
Virgil C. Reid III, M.D., Hillsborough, NC
Lisa M. Roberts, M.D., Winston-Salem, NC
Douglas H. Sigmon, M.D., Pineville, NC
Jeffry P. Simko, M.D., Ph.D., Carrboro, NC
William T. Smith IV, M.D., Boston, MA
Carlos A. Vargas, M.D., Morgantown, WV
Dain E. Vines, M.D., Chapel Hill, NC

CLASS OF 1997
Number in class: 165
Percent donors: 38%
Eyal C. Attar, M.D., Brookline, MA
Henry C. Baggett III, M.D., Baltimore, MD
Angela D. Ballance, M.D., Falkland, NC
Michael L. Batten, M.D., New York, NY
Andrew W. Bazemore, M.D., Covington, KY
A. Marlet Bazemore, M.D., Covington, KY
Kimberly L. Beavers, M.D., Chapel Hill, NC
Keturah C. Bell, M.D., Kingsport, TN
Marsha W. Blount, M.D., La Jolla, CA
Debbie A. Brown, M.D., Southfield, MI
Michael B. Brumback, M.D., Decatur, GA
Stephen V. Chiavetta III, M.D., Rochester, MN
Kathy N. Chism, M.D., Knoxville, TN
Elizabeth C. Clark, M.D., Portland, OR
Nicole M. D'Andrea, M.D., Chapel Hill, NC
Lance L. Davis, M.D., Charleston, SC
Marta L. Derieg, M.D., Honolulu, HI
Charles S. Dietrich III, M.D., Aiea, HI
Carrie A. Dow-Smith, M.D., Pearland, TX
Mark T. Dransfield, M.D., Birmingham, AL
Charles W. Eifrig, M.D., Miami Beach, FL
Paul M. Flanagan, M.D., Chapel Hill, NC
Cathryn A. Geary, M.D., Seattle, WA
Bradley C. Gehrs, M.D., Birmingham, AL
Chandra S. Ghosh, M.D., Atlanta, GA
Leigh B. Goodwin, M.D., Charlotte, NC
Todd F. Griffith, M.D., Elkridge, MD
Maura L. Hamrick, M.D., Hillsborough, NC
Heather M. Henderson, M.D., Lexington, KY
Srikant B. Iyer, M.D., Cincinnati, OH
Paul H. Kartheiser, M.D., Durham, NC
Dawn E. Kleinman, M.D., Carrboro, NC
Jennifer S. Klenzak, M.D., Chapel Hill, NC
Kathryn A. Lee, M.D., Hanover, NH
Cindi J. Leech, M.D., Salt Lake City, UT
Nancy L. Linscott, M.D., Oakdale, MN
Erica A. Lyndrup, M.D., New York, NY
Donna B. McGee, M.D., Spartanburg, SC
Leah P. McMann, M.D., Dupont, WA
Jerry W. Mitchell, Jr., M.D., Pittsburgh, PA
Dean S. Morrell, M.D., Chapel Hill, NC
Krista S. Morris, M.D., Birmingham, AL
T. Christopher Morris, M.D., Birmingham, AL
Jeffrey S. Moyer, M.D., Ann Arbor, MI
Julia K. Nelson, M.D., Durham, NC
Brian S. O'Kelley, M.D., Gainesville, FL
John C. Parker, M.D., Lexington, KY
Steven A. Paterno, M.D., Wexford, PA
Joseph F. Penta, M.D., Carlsbad, CA
John K. Petty, M.D., Portland, OR
Sarah B. Philp, M.D., Seattle, WA
Jennifer E. Rhodes-Kropf, M.D., New York, NY
Austin S. Rose, M.D., Chapel Hill, NC
Sherene K. Shakib, M.D., St. Louis, MO
Jeffery D. Smith, M.D., Ann Arbor, MI
Vincent C. Smith, M.D., Pearland, TX
Anne H. Stephens, M.D., Durham, NC
John R. Stephens, M.D., Durham, NC
Amy M. Ursano, M.D., Durham, NC
Julie G. Verchick, M.D., Winston-Salem, NC
Melanie P. Walker, M.D., Cincinnati, OH
Lydia Ward, M.D., Charleston, SC
Stacy C. Wood, M.D., Gainesville, FL

CLASS OF 1998
Number in class: 145
Percent donors: 4%
Stephen D. Brown, Jr., M.D., South Burlington, VT
William F. Durland, Jr., M.D., Chapel Hill, NC
Kathy L. Garland, M.D., Chapel Hill, NC
Miriam W. Lindrooth, M.D., Woodleaf, NC
Siobhan O'Connor, M.D., Carrboro, NC
Sangeeta C. Varanasi, M.D., Ellicott City, MD

MEDICAL ALLIED HEALTH SCIENCES GRADUATES
Emily S. Barrow, Chapel Hill, NC
Pamela M. Bimbo, Asheboro, NC
Cynthia P. Bodenheimer, Winston-Salem, NC
Elizabeth P. Clayton, Martinez, GA
Sidney S. Curry, M.D., Norcross, GA
Evan Framm, Paradise Valley, AZ
Judith L. Glas, Oakdale, PA

BASIC SCIENCES
Kathy F. Baldwin, Kalamazoo, MI
Mary V. Bedinger, Richmond, VA
Kathleen J. Berglund, Kalamazoo, MI
William F. Bird, Durham, NC
Timothy J. Bolling, Wilmington, DE
Aziz A. Boxwala, Carrboro, NC
Terry H. Boyd, Annandale, VA
Lynn Ann Bristol, Baltimore, MD
Suzanne C. Bullock, Southport, NC
Margot G. Butchart, Ormond Beach, FL
G. Ray Collins, Rocky Mount, NC
Victoria Z. Coward, Jacksonville, FL
Merle M. Crawford, Hummelstown, PA
Dorothea M. Davis, Manteo, NC
Harriet H. Ellis, Wilson, NC
Debra R. Ernst, Bloomfield Hills, MI
Anthony L. Fore, Thomasville, NC
Madeline Hechenbleikner Freeman, Greenville, SC
Teresa B. Gagliardi, Chilton, VA

John P. Garvey, Sparta, NC
Karen M. Gibson, Huntersville, NC
Tracy F. Grove, Phoenix, AZ
S. Revelle Gwyn, Huntsville, AL
Janet L. Harrill, Forest City, NC
Suzanne H. Hinman, Pensacola, FL
Edna D. Hodges, Washington, NC
Barry K. Holmes, Charlotte, NC
Carolyn H. Isley, Snow Camp, NC
Carol L. Jacobson, Raleigh, NC
Carrol G. Johnson, Knightdale, NC
Zhengwen Ju, Cary, NC
Alfredo J. Julian, Decatur, GA
Margaret E. Knowles-Tuchman, Durham, NC
Margaret W. Lemanna, Saher Heights, OH
Bob Lerch, Spring Valley, NY
Susan B. Litzsinger, Cary, NC
Scott C. Livingston, Erie, PA
Joanne M. Luciano, Lexington, KY
Earl E. Macy, West Plains, MO
Sally A. Maser, Philadelphia, PA
Celia C. McCarty, Alpharetta, GA
John T. McLean IV, Lincolnton, NC
Cheryl E. Miller, Alpharetta, GA
Daniel H. Moore, Savannah, GA
Susan H. Moore, Raleigh, NC
Marlis F. Morrison, Gastonia, NC
Barbara J. Muller-Borer, Elon College, NC
Mary C. Myers, Marietta, GA
Chiquita L. Pearson, Roswell, GA
Marguerite G. Pennington, Goldsboro, NC
Cathy M. Poulos, Wilmington, NC
Kenneth G. Prince, Jr., Sophia, NC
JoAnne Rauschkolb, Raleigh, NC
Carolyn S. Scott, Fayetteville, NC
Susan S. Skeen, Elon College, NC
Phillip G. Smith, Durham, NC
Martha L. Soyars, Richmond, VA
Sara J. Stitzer, Richmond, VA
Wanda Storch, Swansboro, NC
Linda S. Tillman, Piscataway, NJ
Grace S. Tucker, Deison, TX
Cheryl H. Whelan, Louisville, KY
Amy L. Winham, Wake Forest, NC

FACULTY
Stephen R. Aylward, Ph.D., Chapel Hill, NC
Stuart Bondurant, Jr., M.D., Chapel Hill, NC
H. Robert Brashear, Jr., M.D., Chapel Hill, NC
Joseph A. Buckwalter, M.D., Chapel Hill, NC
Thomas V. Clancy, M.D., Wilmington, NC
Ernest Craige, M.D., Chapel Hill, NC
William J. Cromartie, M.D., Chapel Hill, NC
J. Charles Daw, Ph.D., Chapel Hill, NC
Joseph W. Hall, M.D., Chapel Hill, NC
Walter Hollander, Jr., M.D., Chapel Hill, NC
Jeffrey L. Houpt, M.D., Chapel Hill, NC
David G. Kaufman, M.D., Ph.D., Chapel Hill, NC
Kenneth J. Levin, M.D., Chapel Hill, NC
Stanley R. Mandel, M.D., Chapel Hill, NC
Elizabeth S. Mann, M.D., Chapel Hill, NC
Royce L. Montgomery, M.D., Chapel Hill, NC
Christian E. Newcomer, Chapel Hill, NC
David A. Ontjes, M.D., Chapel Hill, NC
Anthony N. Passannante, M.D., Chapel Hill, NC
David R. Perry, Chapel Hill, NC
James H. Scatliff, M.D., Chapel Hill, NC
Sidney C. Smith, Jr., M.D., Chapel Hill, NC
William G. Sullivan, M.D., Raleigh, NC
Colin G. Thomas, Jr., M.D., Chapel Hill, NC

HOUSESTAFF
John D. Abramson, M.D., South Hamilton, MA
Richard C. Andringa, M.D., Greensboro, NC
David E. Ballard, M.D., Albuquerque, NM
A. John Bambara, M.D., Bridgewater, NJ
Thomas M. Bashore, M.D., Durham, NC
Pauline M. Blair, M.D., New Bern, NC
Robert S. Boger, M.D., Brookfield, CT
Jeffrey P. Bomze, M.D., Haverford, PA
Thomas A. Brackbill, M.D., Greensboro, NC
Robert A. Brown, M.D., Fort Myers, FL
Wallace D. Brown, M.D., Raleigh, NC
Edwin L. Bryan, M.D., Greensboro, NC
Robert V. Buccini, M.D., Greensboro, NC

Alumni and their families enjoyed Eastern Carolina barbeque before the Carolina-Pittsburgh football game last October during Fall Medical Alumni Weekend.

Steven Bujenovic, M.D., Baton Rouge, LA
William R. Bullock, M.D., Charlotte, NC
Holly J. Burge, M.D., Raleigh, NC
William A. Burke, M.D., Greenville, NC
Robert L. Carithers, Jr., M.D., Seattle, WA
Allen E. Cato, Jr., M.D., Durham, NC
Earl H. Crumpler, Jr., M.D., Raleigh, NC
Richard C. Dodd, M.D., Asheville, NC
Richard Essner, M.D., Los Angeles, CA
Lisa P. Ferrari, M.D., Durham, NC
Gary J. Fischer, M.D., Greensboro, NC
Charles E. Frederick, M.D., Greensboro, NC
Steven D. Harlan, M.D., Hickory, NC
Carl R. Hartrampf, Jr., M.D., Atlanta, GA
D. Allen Hayes, M.D., Raleigh, NC
Frank S. Highley, M.D., Charlotte, NC
Dr. and Mrs. Robert R. Huntley, Chapel Hill, NC
Harold N. Jacklin, M.D., Greensboro, NC
Ali Jarrahi, M.D., Winston-Salem, NC
Robert B. Johnson, M.D., Cary, NC
Sheryl S. Joyner, M.D., Raleigh, NC
Hisashi Kajikuri, M.D., Monterey, CA
Lee Kasik, M.D., Greensboro, NC
Jeffrey D. Katz, M.D., Greensboro, NC
James E. Kintzel, M.D., Allentown, PA
Steven C. Klein, M.D., Greensboro, NC
Jonathan S. Krauss, M.D., Augusta, GA
H. Kenneth Leatherman, Jr., M.D., Raleigh, NC
Randolph L. Lee, M.D., Apex, NC
John R. Lina, M.D., Southern Pines, NC
H. Raymond Madry, Jr., M.D., Raleigh, NC
John P. Manzella, M.D., York, PA
Peter J. Massicott, M.D., Boston, MA
Charles R. McAdams, Jr., M.D., Charlotte, NC
W. Benson McCutcheon, Jr., M.D., Durham, NC
Morton Meltzer, M.D., Cameron, NC
Steven L. Mendelsohn, M.D., Asheville, NC
David K. Millward, M.D., Raleigh, NC
James J. Murphy, M.D., Arden, NC
Keith A. Nance, M.D., Raleigh, NC
Richard A. Niles, M.D., Lynchburg, VA
Wanda K. Panosh, M.D., Greensboro, NC
George H. Pierson, Jr., M.D., Greensboro, NC
Mark A. Powers, M.D., Durham, NC
Mary B. Rippon, M.D., Greenville, SC
Hal J. Rollins, Jr., M.D., Greensboro, NC
Michael S. Schur, M.D., Satellite Beach, FL
Stephen B. Schuster, M.D., Greensboro, NC
Amy W. Shaheen, M.D., Durham, NC
Michael C. Sharp, M.D., Chapel Hill, NC
Katherine M. Shea, M.D., Chapel Hill, NC
Stephanie A. Skolik, M.D., Huntington, WV
Bryan W. Smith, M.D., Chapel Hill, NC
Dixie L. Soo, M.D., Chapel Hill, NC
Liang Y. Soo, M.D., Chapel Hill, NC
E. B. Spangler, Jr., M.D., Greensboro, NC
Steven J. Stafford, M.D., Raleigh, NC
Mary C. Steuterman, M.D., Greensboro, NC
Charlotte A. Sweeney, M.D., Raleigh, NC
Robert V. Sypher, Jr., M.D., Greensboro, NC
Stuart O. Tafeen, M.D., Greensboro, NC
Eugene E. Taylor, M.D., Portland, OR
Bryce Templeton, M.D., Villanova, PA
Dianne W. Trumbull, M.D., Morgantown, WV
William B. Veazey, M.D., Greensboro, NC
Joseph W. Whatley, Jr., M.D., Durham, NC
Kenneth S. White, M.D., Wilmington, NC
George T. Wolff, M.D., Greensboro, NC
Lucas Wong, M.D., Temple, TX
David R. Wood, M.D., Winston-Salem, NC
H. Linton Wray, M.D., Chevy Chase, MD
Peter R. Young, Sr., M.D., Greensboro, NC
Nakhleh P. Zarzar, M.D., Raleigh, NC
Thomas A. Zirker, M.D., Greensboro, NC

Ph.D. GRADUATES
Phyllis G. Andrews, Ph.D., Durham, NC
Linda M. Boland, Ph.D., Woodbury, MN
Stephen W. Burgess, Ph.D., Montevallo, AL
Ronald K. Charlton, Ph.D., Jacksonville, FL
Nancy R. Clendenon, Ph.D., Arapahoe, NC
Laurie B. Connell, Ph.D., Seattle, WA
Lori Ann Dostal, Ph.D., Brighton, MI
David Joel Edwards, Ph.D., Pittsburgh, PA
Michael D. Feezor, Chapel Hill, NC
Charles C. Finley, Ph.D, Chapel Hill, NC
James C. W. Finley, Ph.D., Cleveland, OH
W. Barry Foster, Ph.D., Chelmsford, MA
S. David Hsu, Ph.D., Durham, NC
Beatrice Hughes-Werner, Ph.D., Chapel Hill, NC
Jim D. Karam, Ph.D., New Orleans, LA
Robert G. Lamb, Ph.D., Midlothian, VA
Tee-Ping Lee, Ph.D., Williamsville, NY
Michael J. Lelivelt, Ph.D., Sun Praire, WI
David P. Lewis, Ph.D., Chapel Hill, NC
Frank S. Menniti, Ph.D., Mystic, CT
Thomas K. Miller III, Ph.D., Raleigh, NC
Michell M. Nicolle, Ph.D., Jacksonville, FL
Richard W. Padgett, Ph.D., Piscataway, NJ
Mary Ella M. Pierpont, Ph.D., Saint Paul, MN
Derek T. Puff, Ph.D., Saint Davids, PA
Bonnie B. Punske, Ph.D., Sandy, UT
Wayne R. Retter, Ph.D., Denver, CO
Robert A. Schwartzman, Ph.D., Gaithersburg, MD
Drusilla L. Scott, Ph.D., Ann Arbor, MI
Corinne M. Silva, Ph.D., Charlottesville, VA
Jennifer V. Smith, Ph.D., Malvern, PA
Mary L. Thomas, Ph.D., Galveston, TX
Daniel J. Wasser, Ph.D., Jackson, NJ

President's Letter

They are doing things right. By "they," I mean the administration and faculty of our Medical School. Let me share my observations of three recent events.

First, the fall Medical Alumni meetings October 9 and 10 were, as usual, very good. Since you received the program, I won't go over the individual presentations. But as I have stated before, they are educational plus it's fun to see what's going on at the cutting edge of medicine.

The banquet on Friday night was a chance to see old friends, and this year we had a special treat. Robert Bashford, MD, was officially announced as the first Medical Alumni Distinguished Teaching Professor. Dr. Bashford demonstrated why he is so popular in his brief remarks to us on Friday night and again at the lectures on Saturday.

Thus, "they" are taking care of the alumni through opportunities for CME and social events with fellow Tar Heel physicians.

The Norma Berryhill Distinguished Lecturer, Joe W. Grisham, MD, who has truly distinguished himself in the field of pathology, gave his lecture on October 28. It was my privilege to attend on behalf of the MAA and to thank Mrs. Berryhill for all that she and the late Dr. Berryhill did for our school.

"They" are taking care of the faculty by recognizing those who have been outstanding.

Best of all was the White Coat Ceremony for the first-year medical students and their families that was held on Saturday, November 14. The students had already been divided into small groups to work together in physical diagnosis, community service, and so on. At the ceremony, Roberta Williams, MD, Class of '68 and chair of the Department of Pediatrics, simply and eloquently shared some considered and practical pearls. Then each team was called to the stage where they stood before faculty advisers and donned white coats for the first time. Their families and fellow students cheered — and as they exited the stage they were given a framed copy of an oath written by former students and a book on doctoring.

To me this was an especially moving and proper ceremony for several reasons. Its basic mission nicely symbolized the transition from didactic to clinical teaching. I'm sure the students there will never forget the day nor the responsibilities they have assumed by joining our profession. Furthermore, they were recognized as members of a team, not as individuals. To get into medical school seems mostly an individual effort, but, for the rest of their lives, they will depend on others to help them accomplish their work, and the sooner they understand that the better. Their loved ones were there to witness the transition and the beaming faces of their parents were obscured only by the flashes of their cameras. What a great treat for them and, considering their roles in the successes of their children, they deserved it!

Finally, it was the truest of commencement ceremonies that I've witnessed. These young people have now begun their journey with the professionals of medicine, and, if they were still somewhat dazzled and dazed by where they are and the depth and breadth of knowledge that they must master, the fact that it is for the betterment of humankind could hardly have been better communicated.

So, Fellow Alumni, our medical students are not only extraordinarily qualified, they are in the right place to learn the facts and the humanity of medicine. "They" are taking care of them and the future of medicine. Can you tell how happy it makes me to see such goings-on in Chapel Hill?

Jim Hundley

James D. Hundley, MD '67

CME/Alumni Calendar

April 8-10, 1999 — Chapel Hill
Hemophilia Care in the New Millennium: An International Symposium

April 14-16, 1999 — Chapel Hill
23rd Annual Internal Medicine Conference

April 20, 1999 — Chapel Hill
Emergency Medicine Research Forum

April 23, 1999 — Chapel Hill
DNA Bypass & Repair

April 23-24, 1999 — Chapel Hill
Spring Medical Alumni Weekend

April 24-25, 1999 — New Bern
14th Annual Meeting of the Glomerular Disease Collaborative Network

May 1, 1999 — Chapel Hill
Principles of Headache Management In the New Millennium

May 19-21, 1999 — Chapel Hill
20th Annual TEACCH Conference: Evaluating Intervention Approaches & Treatment Effectiveness

For more information about CME courses, contact the Office of Continuing Medical Education, (919) 962-2118, or toll-free through the Consultation Center, (800) 862-6264. To contact the Alumni Affairs office, call (919) 962-6786 or e-mail <med_alum@med.unc.edu>.

Estate Planning Notice

Many individuals would like to make a major gift to the UNC medical center, but cannot commit current assets for such a purpose. Through a will, however, anyone can make a more significant gift than they might ever have thought possible by designating a specific sum, a percentage, or the residue of their estate for the benefit of the medical center.

To provide a bequest, simply include a paragraph in your will naming The Medical Foundation of North Carolina, Inc. as a beneficiary. For example:

"I give, devise and bequeath (the sum of $_____) or (_____% of my estate) or (the residue of my estate) to The Medical Foundation of North Carolina, Inc., a 501(C)(3) created to maintain funds for the UNC medical center with principal offices located at 880 Airport Road, Chapel Hill, North Carolina."

This language creates an unrestricted bequest for use by the medical center when and where the need is greatest, or you may specify that your gift be used for a particular purpose.

For further information on bequests, contact Jane McNeer at (919) 966-1201, (800) 962-2543, or <jmcneer@email.unc.edu>.

Nonprofit Organization
U.S. Postage
PAID
Chapel Hill, NC
Permit No. 24

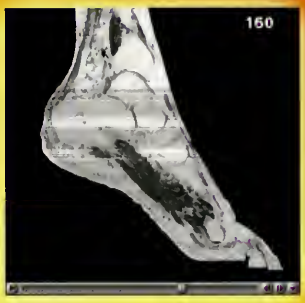
PERIODICALS DEPARTMENT
HEALTH SCIENCES LIBRARY
CB 7585
CAROLINA CAMPUS

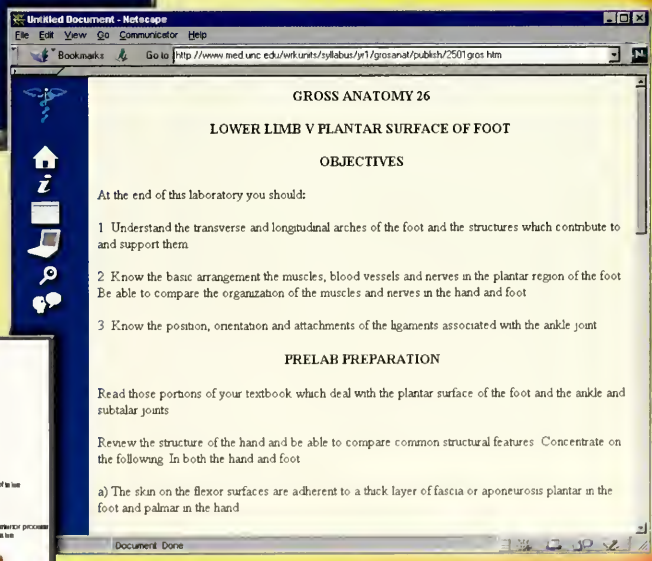
Spring 1999

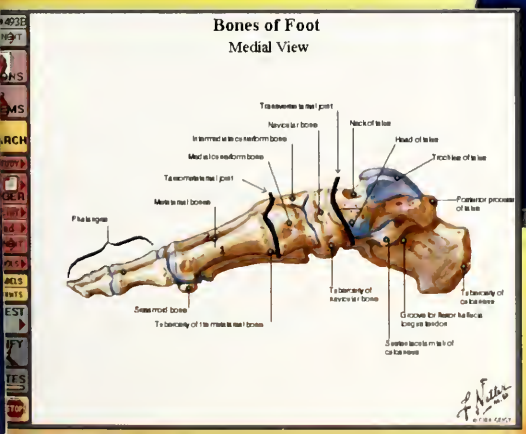
Medical Alumni BULLETIN

School of Medicine, University of North Carolina at Chapel Hill

Foot Step 1 - Netscape
File Edit View Go Communicator Help
Dissection of the Dorsum of the Foot
Step 1
Objective:
Understand the arrangements and the insertions of the tendons from the muscles of the leg onto the dorsum of the foot.
Step 1:
Cut off a band of skin (approximately 1" in width) around the leg just superior to the malleoli, leaving as much subcutaneous fat as possible. Look for the following nerves that are the target of the ankle block procedure:
sural nerve (Netter plate 504)
superficial peroneal nerve (Netter plate 506)
deep peroneal nerve (Netter plate 506)
saphenous nerve coursing with the great saphenous vein (Netter plates 502 and 506)
Posterior tibial nerve (Netter plates 493 and 506)
Go To Step 2
Visible Human Quick Time Movies:
Axial
Coronal
Sagittal
Start Netters: click study button and load guide 1
Lecture Materials:
Dorsal surface of foot
Plantar surface of foot
Document Done




Untitled Document - Netscape
File Edit View Go Communicator Help
Bookmarks Go to: http://www.med.unc.edu/wrkunits/syllabus/yr1/grosanat/publish/2501gros.htm
GROSS ANATOMY 26
LOWER LIMB V PLANTAR SURFACE OF FOOT
OBJECTIVES
At the end of this laboratory you should:
1 Understand the transverse and longitudinal arches of the foot and the structures which contribute to and support them
2 Know the basic arrangement the muscles, blood vessels and nerves in the plantar region of the foot Be able to compare the organization of the muscles and nerves in the hand and foot
3 Know the position, orientation and attachments of the ligaments associated with the ankle joint
PRELAB PREPARATION
Read those portions of your textbook which deal with the plantar surface of the foot and the ankle and subtalar joints
Review the structure of the hand and be able to compare common structural features Concentrate on the following In both the hand and foot
a) The skin on the flexor surfaces are adherent to a thick layer of fascia or aponeurosis plantar in the foot and palmar in the hand
Document Done



Med School Online

page 10

Dean's Page

Last fall, I appointed a Research Advisory Committee (RAC) to advise me on the direction of the research enterprise in the School of Medicine. This committee, chaired by Executive Associate Dean for Research Bill Marzluff, is composed of outstanding faculty active in both clinical and basic research. In addition to the RAC, a separate committee, the Population-Based Research Committee, composed of faculty from the School of Medicine and the School of Public Health, has been constituted to provide advice in the rapidly expanding area of population-based research. I have asked Dr. Marzluff to summarize the findings of the RAC for you. In a future issue, we will print the findings of the Population-Based Research Committee. Dr. Marzluff's report follows.

Jeffrey L. Houpt

Jeffrey L. Houpt, MD
Dean

The Research Advisory Committee is focusing on four areas of long-term importance to the School of Medicine: new research directions that should be emphasized by the School of Medicine, the role and management of clinical trials in the overall research portfolio of the school, facilitating the transfer of technology developed in the medical school to industry, and the development of the necessary infrastructure to maintain a competitive research environment with access to state-of-the-art technologies as they are developed.

The School of Medicine decided several years ago to expand and unify the research programs in the Neurosciences. A major new research facility, the eight-story Neuroscience Center, is currently under construction and is scheduled to open in April 2000. In addition to providing laboratory and animal space to replace the Brain Development Research Center, which was razed to make room for the new Women's and Children's hospitals, the Neuroscience Center will also house new Neuroscience faculty, including Director William D. Snider, MD '77, who will join us this summer from Washington University School of Medicine.

In terms of new research directions, the RAC has identified several other areas in which the School of Medicine should build nationally prominent programs. These include genetics and bioinformatics, emerging infectious diseases and vascular biology.

In genetics, the genome project will complete the sequence of the human genome within the next five years. Already the complete sequence of a number of microorganisms, including baker's yeast, and the sequence of an important model organism, the nematode *C. elegans*, have been completed. This incredible wealth of information will usher in a new era of biological research. For the first time we will be able to understand the genetic basis of the "common" diseases that affect a great many people — hypertension, cardiovascular disease, cancer and diabetes among them. Developing the technologies to decipher and apply this information will be a major challenge for the future.

The School of Medicine plans to build on our current strength in mouse models of disease to develop a program of mammalian genetics. This program will include development of significant strength in clinical genetics.

A Center for Emerging Infectious Diseases has been established under the direction of Dr. Mike Cohen. We are developing an international reputation in this area and recently Dr. Ron Swanstrom, Biochemistry and Biophysics, led a team that was awarded a Center for AIDS Research grant from the NIH. Research in this center will focus on sexually-transmitted and antibiotic-resistant diseases. We anticipate the center will put UNC at the forefront of this increasingly important area of medicine as we enter the next century.

A third area identified by the RAC was vascular biology. The School of Medicine has a long history of outstanding research in vascular biology, led by the pioneering efforts of Dr. Ken Brinkhous. In the next ten years there will be new challenges in vascular biology, particularly in our understanding of the process of angiogenesis, which is critical both for normal development and the development of tumors.

The next two decades promise to be a time of exciting new developments in biomedical research, as the progress in basic research — which started with the discovery of the structure of DNA in 1953 — will reach fruition in the understanding of the molecular basis of many diseases and the development of new strategies to both prevent and treat these diseases. I am confident UNC will play a significant role in these advances, which will certainly change medicine.

Medical Alumni BULLETIN

School of Medicine, University of North Carolina at Chapel Hill

Medical Alumni Association Officers

President
Gordon B. LeGrand, MD '65
Raleigh

President-Elect
Paul E. Viser, MD '84
Clinton

Vice President
Thomas J. Koontz, MD '66
Winston-Salem

Secretary
Ralph L. Wall Jr., MD '78
Winston-Salem

Treasurer
William M. Herndon, Jr., MD '81
Charlotte

Editorial Staff

John W. Stokes
Director, Institutional Relations

Susan Vassar King
Managing Editor

Andrea Beloff, Timothy P. Bukowski, MD, Robin C. Gaitens, Angela Spivey, Trish Towne, Ginger Travis, Lynn Wooten
Contributing Writers

Dan Crawford (pgs. 3, 4, 8, 13, 15, 20)
Jay Mangum (pg. 21)
Dan Sears (pgs. 9, 16 - 18)
Photographers

The *Medical Alumni Bulletin* is published four times annually by the UNC-Chapel Hill Medical Alumni Association, Chapel Hill, NC 27514. Postage is paid by the non-profit association through U.S. Postal Permit No. 24. Address correspondence to the editor, Office of Medical Center Public Affairs, School of Medicine, CB#7600, University of North Carolina, Chapel Hill, NC 27514.

Contents

Features

Looking to the Future, Honoring the Past
Annie Louise Wilkerson, MD '36, pays tribute to her first and greatest mentor 6

New Laser Device a Boon for Chronic Ear Infections 9

Educational Multimedia Lab Supports Latest Technologies 10

Medical Historian Named McDonnell Foundation Centennial Fellow 11

A Mind Unreal
After decades of study, schizophrenia, a disorder twice as common as Alzheimer's, remains largely unexplained. 12

Dr. Teacher
The MAA's first Distinguished Teaching Professor, Robert Bashford, MD '71, takes the education of behavioral science students to new heights. 14

A Seat with a View
Thoughts from the Tar Heel Bus Tour journal of Tim Bukowski, MD. 16

Medical Alumni Association Honors Six 19

Spring Medical Alumni Weekend and Student Awards Night 20

Departments

Dean's Page ..... Inside Front Cover
News Briefs 2
Research Briefs 5
Faculty Notes 22
Development Notes 26
Alumni Notes 27
President's Letter ..... Inside Back Cover
CME/Alumni Calendar ..... Back Cover

On the Cover: This website for the first-year course in gross anatomy is one of many projects currently evolving in the Faculty Multimedia Development Lab. The project integrates online learning materials such as video, web pages, radiographs and illustrations related to each lab dissection. These reference tools are available to students on their laptop computers whether they are on campus or around the state. See story on page 10. *Cover design by Joe Goldston.*

News Briefs

Who said that?

Pearls Day is a timeless tradition at UNC, with faculty and staff as excited about the event as the students it celebrates. Pearls Day '99 was no exception.

Since many of UNC's faculty are famous (or infamous) for their Pearls Day presentations, see if you can correctly choose which physician offered which pearl of wisdom. Answers follow.

Pearls

a. Neurology is studied by nerds.
b. Listen more than you talk. Spend more time with your patients than your computer.
c. Ask the patient what they believe is the cause of their symptom. It's amazing how often the patient is correct.
d. To look smart on rounds, suggest Parvovirus B19.
e. Being a doctor is not a job; it's a calling. The best decision you made was to do medical school training at UNC.
f. Save time for yourself and you will succeed.
g. Listen to yourself when you talk to patients. If you aren't making sense, stop talking!
h. Take action against domestic violence.
i. Put yourself in your patient's shoes. You'll be a better doctor for it.
j. Understand your own joke slide.
k. Send male day-op patients home with pants on.
l. You are the most powerful drug for your patients. Death is the time people need you.

Physicians

Kevin E. Behrns, MD, General Surgery
Nancy Chescheir, MD, Ob/Gyn
Amelia Drake, MD, Surgery
Alan G. Finkel, MD, Neurology
Harvey J. Hamrick, MD, Pediatrics
William D. Heizer, MD, Medicine
Axalla J. Hoole, MD, Medicine
John S. Kizer, MD, Medicine
Henry R. Lesesne, MD, Medicine
Byron A. Lindsey, MD, Psychiatry
Melanie Mintzer, MD, Family Medicine
James H. Scatliff, MD, Radiology

Answers: a. Finkel, b. Lesesne, c. Heizer, d. Hamrick, e. Behrns, f. Kizer, g. Hoole, h. Chescheir, i. Lindsey, j. Drake, k. Scatliff, l. Mintzer

Houpt chairs provost search panel

School of Medicine Dean Jeffrey L. Houpt, MD, will lead a 16-member search committee to conduct a national search for the next provost of UNC-Chapel Hill.

When Dr. Richard J. Richardson was named provost in mid-April 1996 — after already having worked as interim provost since June 21, 1995 — he said that he did not plan to serve in that post beyond June 2000.

The provost serves as chief academic officer and oversees all academic operations, including 13 colleges and schools, the University Library, a variety of centers, and several cultural and educational units.

Committee members will conduct a national search that could take several months to complete. A final slate of candidates will be recommended to the chancellor, who will select and present one name to the UNC-CH Board of Trustees for approval. Then the nomination goes to UNC President Molly Broad and the UNC Board of Governors for final approval.

Also on the search committee from the School of Medicine is H. Shelton Earp III, MD, director of the UNC Lineberger Comprehensive Cancer Center.

School of Medicine NIH grants top $107 million

The National Institutes of Health in 1998 awarded the School of Medicine more than $107 million for research, training and other needs.

Overall, the NIH handed out more than $5.67 billion in extramural awards to 127 medical schools across the United States. UNC placed No. 17 on the list of the highest awards offered.

The Department of Medicine garnered the largest portion of the school's money, $46,304,208, including funds for research, training, contracts, fellowships and other needs. The award was the eighth largest award in the category of medicine.

The NIH is one of eight agencies of the Public Health Service, which, in turn, is part of the U.S. Department of Health and Human Services. Its mission is to uncover new knowledge that will lead to better health for everyone. NIH works toward that mission by: conducting research in its own laboratories; supporting the research of non-federal scientists in universities, medical schools, hospitals and research institutions throughout the country and abroad; helping in the training of research investigators; and fostering communication of biomedical information.

"Because NIH awards grants on the basis of merit review, our numbers and rank attest to the quality of our faculty and the research that is being done here," said Jeffrey L. Houpt, MD, dean of the School of Medicine.

Other areas of the School of Medicine that received NIH money included:

- Anatomy — $3,607,647
- Anesthesiology — $200,079
- Biochemistry — $5,538,306
- Biology — $241,346
- Dermatology — $918,707
- Engineering — $1,230,000
- Genetics — $164,303
- Microbiology — $4,199,480
- Neurology — $1,422,198
- Other basic sciences — $3,594,594
- Other health professions — $166,753
- Obstetrics and gynecology — $148,834
- Pathology — $7,870,582
- Pediatrics — $5,638,657
- Pharmacology — $5,937,530
- Physiology — $3,969,174
- Psychiatry — $2,798,792
- Radiology — $1,439,131
- Surgery — $1,300,977
- No area specified — $1,241,498

UNC Hospitals receives Accreditation with Commendation

UNC Hospitals has been accredited with commendation by the Joint Commission on Accreditation of Healthcare Organizations. Only 16 percent of accredited hospitals have achieved Accreditation with Commendation, the highest level of accreditation awarded by the Joint Commission.

In February, JCAHO surveyors conducted a voluntary on-site survey of UNC Hospitals, its outpatient care facilities and its home health agency.

"Receiving Accreditation with Commendation is a significant achievement, one that recognizes exemplary performance," said JCAHO President Dennis S. O'Leary. "UNC Hospitals should be commended for its commitment to providing quality care to the people in North Carolina."

Call for 2000 Match participants

School of Medicine alumni who are interested in participating in the National Residency Matching Program in 2000 must contact the Office of Student Affairs by August 31 to be included in the Dean's Letter and match process. Call Student Affairs at (919) 962-8334 or email kps@med.unc.edu. Additional information can be found on the web at http://www.med.unc.edu/stuaff/sasites/dlmainpg.htm.

Rex Hospital to join UNC Health Care

UNC Health Care CEO Jeffrey L. Houpt, MD, and Rex Healthcare President and CEO James W. Albright announced April 15 that the two institutions have signed a non-binding letter of intent to make Raleigh-based Rex Healthcare part of the UNC Health Care System.

The two groups have entered negotiations expected to result in a final agreement by the end of 1999.

Houpt said the collaboration holds great promise for meeting the strategic needs of both institutions.

"UNC gains because our capacity to serve North Carolinians is expanded and Rex benefits from our strengths in high-level clinical programs, advanced technology and medical research," Houpt said.

Albright agreed.

"We believe this partnership will strengthen our ability to offer high-quality, cost-effective health care to our community," he said. "Rex will maintain its focus on Wake County and the emphasis on patient care. At the same time, we will benefit from UNC's ability to introduce new treatment capabilities and advances in care at our locations."

Landmark liver transplant saves lives

UNC surgeons have performed the first living-related, adult-to-adult liver transplant in North Carolina. In the landmark procedure last November, 44-year-old Barbra Howard gave a piece of her liver to her mother, Mitsuka Brown, whose liver was failing from cancer and hepatitis.

In a seven-hour operation, Mark Johnson, MD, and David Gerber, MD, both assistant professors of surgery, removed half of Howard's liver. Jeffrey H. Fair, MD, assistant professor of surgery and director of abdominal transplantation at UNC, then grafted the section of Howard's healthy liver onto her 67-year-old mother's failing one in a six-hour procedure.

Within days, Brown was showing signs of improvement. Howard, a certified public accountant, was back at work two months after the operation.

Although adult-to-child liver transplants have been performed for several years, the adult-to-adult procedure is still relatively new. Only a handful have been performed nationwide. The adult-to-adult operation is "essentially the same procedure, but it's much harder because of the magnitude

Feldshuh's lecture, "Miss Evers' Boys: Ethical Truth and Factual Fiction," is based on his latest play, which received the New American Play Award and was nominated for the Pulitzer Prize in Drama.

Physician-actor delivers Spicer-Breckenridge

David Feldshuh, MD, PhD, professor and artistic director at Cornell University's Center for Theatre Arts, gave the 17th Spicer-Breckenridge Memorial Lecture on April 23 in Berryhill Hall.

Feldshuh graduated Phi Beta Kappa from Dartmouth College, received his actor training as a Reynold's Scholar at the London Academy of Music and Dramatic Art, and studied mime with Jacques Lecoq. He earned a PhD in theater and an MD from the University of Minnesota, working his way through medical school by directing plays and teaching acting. Following medical school he completed a residency in emergency medicine at Hennepin County Medical Center, Minneapolis, achieved board certification and qualified as a fellow of the American College of Emergency Physicians. He continues to practice medicine on a part-time basis at a regional emergency department and ambulatory care center.

The Spicer-Breckenridge Memorial Lecture was established in 1983 in memory of two members of the School of Medicine's Class of 1939 who lost their lives in World War II. An endowment established by the classmates and other friends of Emmet Spicer and Arnold Breckenridge brings an outstanding speaker to the medical school each year. The lectures focus on the humanistic aspects of life, especially of the practice of medicine.

involved," Fair said. A larger section of liver is needed, requiring many more delicate surgical connections.

In addition to mitigating the effect of the shortage of cadaveric organ donations, using an organ from a living donor allows doctors to operate while the recipient is still relatively healthy. And a living organ will work better sooner. Fair estimates that living adult-to-adult liver transplants will supply up to one third of the liver transplant needs in the United States.

Since the initial procedure, Fair and his team have performed two more living-related adult-to-adult liver transplants. All four patients are doing well.

Preceptor development goes online

A web-based faculty development program will be available soon to practitioners serving as preceptors to health professions students in North Carolina. The program, the *Expert Preceptor Interactive Curriculum*, or *EPIC*, is presented in ten modules that help practitioners enhance their teaching skills and develop strategies for teaching contemporary health care issues in community practice.

Each module includes learning objectives, online activities that incorporate multimedia and interactive features, and a mastery exercise. A maximum of two hours of continuing education credit per module may be earned.

Module topics include Learning Environment and Goals, Effective Teaching in the Community Practice, Evaluating Performance and Giving Feedback, Teamwork in Health Care, Information Technology, Evidence-Based Care, Clinician-Patient Relationships, Changing Environment: Managing Care, Health Promotion/Disease Prevention, and Working with the Community.

The Office of Educational Development and the Office of Information Systems, both part of UNC School of Medicine administration, developed this project through a grant from the Fund for the Improvement of Post-Secondary Education, U.S. Department of Education. The system is now being tested with a small group of preceptors and will be available to a larger group by late Summer 1999.

Interested preceptors are invited to explore the site at http://www.med.unc.edu/epic/

For more information or to participate, email epic@med.unc.edu or call Anne Morris at (919) 843-9375.

Breast imaging section earns national accreditation

The breast imaging section of UNC Hospitals' radiology department has been awarded three-year accreditation in the ultrasound-guided and stereotactic breast biopsy by the American College of Radiology.

The college is a national organization serving more than 38,000 radiologists, radiation oncologists and medical physicists with programs focused on the practice of radiology and the delivery of comprehensive health services. The college's Committee on Ultrasound-Guided and Stereotactic Breast Biopsy Accreditation evaluates practices in hospitals and private offices across the United States.

The college awards accreditation to breast-biopsy practices achieving high standards after a voluntary evaluation. Evaluations are conducted by radiologists who are college members with special expertise in ultrasound-guided and stereotactic breast biopsy.

Etta Pisano, MD, chief of breast imaging at UNC and co-director of the UNC Lineberger Comprehensive Cancer Center's Breast Cancer Program, said "this accreditation means that patients can be assured UNC meets the highest professionals standards in the area of needle breast biopsy."

Lineberger Cancer Center appoints new members to board of visitors

The UNC Lineberger Comprehensive Cancer Center recently appointed Dr. William G. and Betty Quarles of Gastonia and James G. and Carolyn R. Aldige of Alexandria, Va., to its board of visitors.

The Lineberger center, part of the UNC School of Medicine, is one of 35 National Cancer Institute-designated comprehensive cancer centers in the country. The board of visitors is an 89-member volunteer group that helps develop support for research and patient education, assists in community and statewide cancer programs, and advises Center Director H. Shelton Earp III, MD.

William Quarles is a dentist in private practice; Betty Quarles is an active volunteer. James Aldige is president of Dominion Direct Marketing; Carolyn R. Aldige is founder and president of the Cancer Research Foundation of America.

Merrimon Lecture features "How We Die" author

Sherwin B. Nuland, MD, is surrounded by well-wishers after he delivered "Doctors and Patients at the Hour of Death" at the 1998 Merrimon Lecture. Nuland is clinical professor of surgery at Yale University and author of "How We Die," a reflection on the modern way of death and a New York Times *best-seller for 34 weeks.*

The Merrimon Lecture, established by the late Dr. Louise Merrimon Perry, was inaugurated in 1966. Dr. Perry's idea was that the lectures be open to all, but that they be concerned with "the Origins, Traditions and History of the Medical Profession and that Ethical Philosophy which must dominate this Field of Human Endeavor."

Research Briefs

A sampling of research activity from the UNC medical center. Further details are available from the investigators. Email addresses are listed when available, otherwise all researchers can be reached through the Consultation Center, (800) 862-6264.

Blood supply safer, but donors fewer

The risk of contracting a virus — including the virus that causes AIDS — from donated blood in the United States has grown too small to measure and can only be estimated through mathematical techniques, disease specialists say.

On the other hand, too few people donate blood regularly, they say, and the percentage of donors has dropped. With the growing U.S. population also aging, the nation will face an increasing need for transfusions over the next few decades. One likely result will be a serious blood shortage, and more units will need to be imported from abroad.

"A lot of people, including most practicing physicians, don't realize that the U.S. blood supply is now extremely safe — so safe it's difficult even to estimate the risk of disease transmission," said Mark E. Brecher, MD, professor of pathology and laboratory medicine at UNC and one of the study authors. "Because of that high safety level, the effectiveness of donating one's own blood for use during or after an upcoming operation, which does present a small risk to patients, is being called into question."

The two-part report on progress in transfusion medicine appeared in the Feb. 11 and Feb. 18 issues of the *New England Journal of Medicine*. Brecher can be reached at brecher@med.unc.edu.

Protein clues to early embryo development

In a study of life's beginnings, UNC scientists have moved a step closer to unraveling the biochemical mystery of embryogenesis, the process by which an egg cell transforms into an embryo.

At the heart of this new research is a pair of cellular proteins — SLBP1 and SLBP2 — which were identified in frog oocytes (immature egg cells) by researchers headed by William F. Marzluff, PhD, professor of biochemistry and biophysics. In a report of the findings published in January's *Molecular and Cellular Biology*, Marzluff and his study colleagues suggest that the proteins act as separate "on" or "off" biochemical switches that trigger synthesis of histone proteins crucial to normal cell functioning during embryogenesis and throughout the organism's life. About half of the nucleoprotein complex known as DNA are histone proteins.

Read more at http://www.unc.edu/news/newsserv/research/protein.htm. Marzluff can be reached at marzluff@med.unc.edu.

First in new class of AIDS drugs

AIDS investigators at UNC are testing the first of a new class of drugs that attacks HIV before it enters the cell and may prove effective for patients with drug-resistant HIV.

The fusion inhibitor, known as T-20, prevents HIV from fusing with the cell surface membrane. Thus, T-20 attacks HIV in an entirely different way than the most potent HIV agents now in use.

"HIV resistant to the currently available medications would not be expected to be resistant to this drug because of its unique action," says Joseph Eron, MD, associate professor of medicine.

Read more at http://www.unc.edu/news/newsserv/research/aidsdrug.htm. Eron can be reached at jeron@med.unc.edu.

Abnormal pain syndrome and nerve cell changes

A study by UNC researchers has identified molecular changes in nerve cells that may play an important role in an abnormal pain syndrome that often eludes effective treatment.

The new findings, published March 1 in the *Journal of Physiology*, adds important new knowledge to the mysterious medical syndrome causalgia and opens the door to finding new ways to treat it.

Causalgia involves the spontaneous occurrence of persistent burning pain that begins days or weeks after traumatic injury to a large nerve, usually in a limb. First described after the Civil War, causalgia can appear after accidental nerve traumas, such as automobile crush injuries and industrial mishaps.

"Typical injuries that have led to the causalgic syndrome are injuries to a large nerve like the sciatic nerve, which runs the length of the leg, or the ulnar and median nerves of the arm. These are large mixed nerves that contain motor and sensory fibers," says Edward R. Perl, MD, professor of cell and molecular physiology.

Read more at http://www.unc.edu/news/newsserv/research/pain.htm. Perl can be reached at erp@med.unc.edu.

Estrogen replacement lowers blood pressure of older women with hypertension

New research at UNC ties estrogen replacement to blood pressure reductions in older women with hypertension.

The reductions, observed for the first time under both stressful and restful situations, may help explain why fewer deaths from heart disease and stroke occur among women who opt for hormone replacement therapy after menopause.

"It has been unclear if this was a result of the estrogen itself or because these women tend to see their doctors more often and possibly get better treatment, or smoke less, eat better, or exercise more," says Kathleen C. Light, PhD, professor of psychiatry.

Read more at http://www.unc.edu/news/newsserv/research/estrogen.htm.

Looking to the Future, Honoring the Past

Annie Louise Wilkerson, MD '36, Pays Tribute to Her First and Greatest Mentor

by Ginger Travis

Note: In the last issue of the Bulletin *you may have read of the planned gift of two endowed professorships by Annie Louise Wilkerson, MD '36, of Raleigh. The two $500,000 professorship endowments will be funded with the remainder of a charitable remainder unitrust that Wilkerson created, along with funds from her tax-deferred retirement account. Here we continue her story to understand* **why** *she felt so strongly about giving to benefit the School of Medicine. Wilkerson and her father both were influenced in their medical careers by admired role models. Appreciation for mentors is a thread running through her life and his, back almost to the very beginning of UNC's medical program. With her gift, that thread will run strongly into the future in side-by-side endowed chairs: the Charles Baynes Wilkerson Sr. MD '06 Distinguished Professorship of Family Medicine and the Annie Louise Wilkerson MD '36 Distinguished Professorship of Obstetrics and Gynecology.*

March 18, 1924

"Happy with my little family" and "still enjoying excellent health," writes Charles Baynes Wilkerson, MD '06, in an update to the UNC General Alumni Association. He adds, at the bottom of his form, "I have never played to or for the grandstand but in a feeble way served my fellow man with the hope that I may not be empty handed when called before my maker in the last and final day, and that I might not betray the teaching and trust of my dear beloved teacher, Richard Whitehead."

Dr. Richard Henry Whitehead in 1890 had instituted the new medical curriculum at UNC, where Charles Wilkerson began his studies in 1902. In fact, Whitehead *was* the medical school until a second professor joined him in 1896. When Whitehead died in 1916 at only 51 years of age, his former student, Charles Wilkerson, had been in practice for a decade.

Wilkerson did right by his esteemed medical professor. He served Wake County for 38 years (for 10 of them, as county physician), took equally good care of his patients whether they could pay him or not, and inspired three of his five children to follow him into medicine. In fact, he lived to see his daughter Annie Louise join him in practice. And after Wilkerson died in 1944, his work lived on in the babies he'd delivered and patients he'd healed, and his values survived in his children. But his name, in the half century since his death, has faded from public memory.

"But he *should* be remembered," says Annie Louise Wilkerson, MD '36.

Charles Baynes Wilkerson, MD, in 1941. Photo courtesy of UNC-CH Central Alumni Service.

April 5, 1999

It's a perfect spring morning on Dr. Annie's Wake County farm: late daffodils blooming, white violets starring the lawn, fields of green holding her Hereford and Black Angus beef cattle, tulip poplars just leafing out at the edge of the woods. Two enormous white sycamores tower over the small original farmhouse, and bluebirds fly across the yard. The fields and fences here are neat, and every outbuilding is carefully painted and in good repair. This farm is tended with love.

The farm is Wilkerson's retirement home. She is 85 now but practiced until just six years ago. In three generations of Wilkerson doctors — her father Charles and her uncle Thaddeus, her brothers Charles and Louis, and her niece, Mary Susan Fulghum,

Annie Louise Wilkerson, MD, in her Raleigh office, 1961. The background photos are of her brothers, "Dr. Charles," and "Dr. Louis." Photo courtesy of Annie Louise Wilkerson.

MD '71 — Annie Louise is the one who has practiced longest, passing the half-century mark before she retired. She was made for work and enjoyed it too much to quit.

On this spring morning she is recalling vivid memories of her beloved father with whom she went on house calls in the years just after World War I. He drove a horse and buggy down Wake County's nearly impassable farm roads — roads way too rough for the family automobile. "I once knew every pigpath in Wake County," his daughter says with satisfaction.

In those childhood years, Annie Louise Wilkerson literally began learning medicine at her father's side. When she arrived at UNC for medical school in 1934 she was already adept at sticking veins, and at age 20, under her dad's supervision, she delivered her first baby.

"The family named it for me: Annie Louise Wilkerson Horton." (Her namesake, if still living, will reach retirement age this year.)

Annie Louise's father, a general practitioner, did it all — delivered babies, amputated limbs crushed in railroad accidents, and treated any and every illness. As county physician, he also cared for convicts and others in institutions.

"He was a beautiful diagnostician," says his daughter, "and he had beautiful technique."

He also set an indelible example of putting patients' needs first.

"People would call at all hours and sometimes he wouldn't want to go. He'd say, 'I know they'll never pay me.' But he always went. We got paid in chickens and buttermilk and eggs and everything else."

"I learned it was something you did 24 hours a day. I never thought of the monetary value of medicine. It was the value of what you did for people."

This became the Wilkerson way, she says. "The patient-doctor relationship. Taking care of your patients, that's the name of the game. You can't market a patient-doctor relationship."

"If you're in medicine for the money," she says firmly, "you're in it for the wrong reason."

Her attitudes were shaped not just by her father but by hard times in the country. The Depression gripped North Carolina when she finished UNC's two-year medical program in 1936 and went on to Medical College of Virginia to complete her M.D. degree. Returning to Raleigh in 1938, she became the first-ever female intern and resident at Rex Hospital (where she later would serve as president of the staff). In 1940 she joined her father's practice and specialized in obstetrics and gynecology. When her father died in 1944, it fell on her to take care of her mother and see her two younger brothers through school. Meanwhile, World War II was ending the Depression but doubling her work, as many male doctors left for military service. Toiling at Rex day and night, she says, almost killed her. Her war work also prevented her from taking a year away from Raleigh in preparation for her boards. She never took them — her one regret in a remarkable career.

Yet medicine *was* good financially for Annie Louise Wilkerson, as postwar prosperity took hold. In 1953, with the money she had earned herself, she bought her beautiful farm.

"I always said I was going to have a farm and a horse. That was my ambition when I was a child. I was 40 when I got it."

A dozen miles north of Raleigh and with no phone at the start, the farm became Wilkerson's haven from the hospital and her busy practice. Though she lived in town with her

Medical School Dean Emeritus Stuart Bondurant presented "Dr. Annie" with the Alumni Association's Distinguished Service Award in 1997.

mother, through the 1950s, '60s and '70s she'd drive to the farm at the end of the day and with her friends would mend fences, mow, make hay, tend to the horses, or work on construction projects to make the old farmhouse habitable. She named the place AWL's Haven. (AWL is a transposition of her initials.) In 1983, having built a comfortable one-story addition onto the old farmhouse, she left Raleigh and moved to the farm for good.

By the early 1990s she had delivered more than 8,000 babies. The practice, known as "the Wilkersons," consisted of her brother Louis and her niece Mary Susan Fulghum in addition to herself. (Her brother Charles Jr., an internist, had worked with them until his death in 1983.) With her remarkable energy, work ethic and big personality, Annie Louise had cut a wide swath in Raleigh. She had helped Wake Medical Center get off to a good start as its first chief of staff. She had been heavily involved in church and civic activities, including the Medical Foundation's Loyalty Fund and Co-Founders' Club, and the university's Chancellors' Club. And now, in her 70s, she was beginning to get urgent messages from her accountant that she needed to do some estate planning.

"I didn't know what I had," she says. "I was too busy working."

For years, she had done as her dad told her: "If you make a little, save a little. If you make a lot, save a lot." Her investments had appreciated over the decades, and now her more-than-200-acre farm, on the south shore of Falls Lake, was being surrounded by high-priced housing developments flowing northward from Raleigh.

Wilkerson took action. She saw a financial planner and also talked to the UNC Medical Foundation about an idea she'd been mulling for some time. Out of these talks came an estate plan and a permanent memorial at UNC to her father — and to her own career, which owed so much to him. She also felt a debt to UNC, which her father, uncle, brothers, one sister and niece had attended.

"I felt like Carolina was a place where something should be done — giving back something that was given to us."

She transferred to a charitable remainder unitrust 74 acres of land and some highly appreciated stock. The trustee sold these and invested the proceeds to produce income for Wilkerson and another family member for their lifetimes. After their deaths, the remainder will flow into the two professorship endowments at the UNC Medical Foundation. The endowments will be topped up with funds from Wilkerson's tax-deferred retirement account.

In addition to the satisfaction of putting this plan in place, Wilkerson received significant tax benefits, including a substantial charitable deduction on her income tax and avoidance of capital gains tax upon the transfer to the trust of the land and stock. Turning a tax-deferred retirement account into a charitable gift may also prove a good move, since it can reduce the large potential liability of estate taxes and income taxes due.

Having done her best for the future and paid her respects to the past, Annie Louise Wilkerson is living in the present, as usual. Her cows conveniently park themselves just beyond the backyard fence where she can see them from her recliner. She is enjoying every minute of another good day on the farm.

"Yesterday's gone and tomorrow's not promised. I live every day."

For information on the many benefits of planning a gift to the UNC Medical Foundation, call Jane McNeer at 1-800-962-2543 (outside Chapel Hill) or 966-1201 (local). □

New Laser Device a Boon for Chronic Ear Infections

ENT surgeon Amelia Drake explains the OtoScan laser treatment to Jack Welch of Siler City as surgical resident Harold Pine aims the laser into Welch's ear.

by Lynn Wooten

Physicians at UNC have begun using a new laser to treat painful and chronic ear infections. The device offers instant — and often long-term — relief to a common affliction.

So far, UNC Hospitals is the only medical facility in the Triangle to offer the OtoScan Laser.

The laser offers an excellent treatment alternative, particularly for chronic ear infection sufferers and youngsters, said Amelia Drake, MD, the Newton D. Fischer distinguished professor in otolaryngology/head and neck surgery and director of pediatric otolaryngology at UNC.

Jack Welch of Siler City has fought otitis media, or "middle-ear infection," for years. He has suffered through four bouts in the last decade, and had endured his most recent attack for two months before learning about the laser treatment.

"It's a tight feeling, like it's obstructed by something," Welch said, as he awaited his treatment. "Seems like I have water in there, or fluid. I cannot hear out of my right ear, there's a small amount of pain. And it's very annoying to have my family shouting at me, above the TV or radio."

Like other patients receiving OtoScan Laser treatments, Welch is given drops to numb the inside of his ear. The numbing process takes about 45 minutes. Then, with Drake at his side, surgical resident Harold Pine aims the laser into Welch's ear while watching a TV monitor that displays the ear canal and eardrum he's targeting.

In just a split second, Pine burns a tiny hole in the wall of the ear drum, creating an immediate release to the pressure that had built up there and caused Welch so much discomfort. The infectious fluid can then be suctioned out, offering the patient even more relief.

"It's like a release, immediately," says Welch, just moments later. "Already there's a tremendous change. The pressure is gone. I can hear things around me again. I'm surprised by what I was *not* hearing."

Drake and Pine point out that the small hole created by the laser is temporary and will close naturally in about a month. While some people may need the treatment repeated if fluid builds up again, many patients find long-term, if not permanent, results.

Middle-ear infections traditionally have been treated with antibiotics or the surgical insertion of pressure equalization tubes, a more expensive and uncomfortable procedure, especially for children. UNC physicians will consider selected children as young as 6 for OtoScan Laser treatments, if their ear conditions do not warrant tubes instead. Physicians would opt for tubes over the laser if it is apparent that tubes would prove more beneficial.

Treatment with tubes can cost about $800, many times more than the cost of OtoScan Laser procedures. The laser's manufacturer estimates that Americans spend about $3 billion annually on treatments for middle-ear infections.

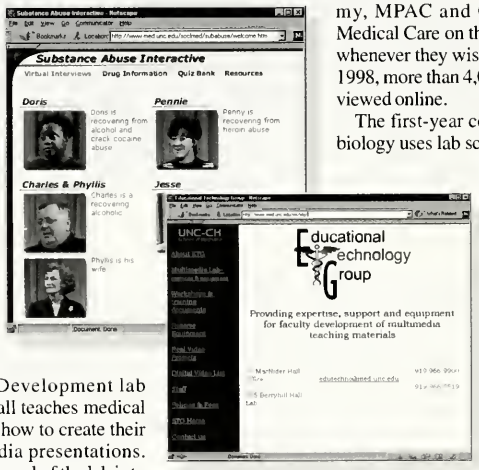
To learn more about the OtoScan Laser, Drake can be reached at drakeaf@med.unc.edu or through the Consultation Center at (800) 862-6264. □

Educational Multimedia Lab Supports Latest Technologies

by Trish Towne

The Internet. Telemedicine. Distance learning.

These terms were non-existent when the majority of School of Medicine alumni were studying in Chapel Hill. For the medical school classes of 2001 and 2002, however, these are as much a part of the curriculum as basic anatomy. Every day, medical students are learning to use the countless resources found on the World Wide Web and on the school's own Intranet. To help keep up with the growing demand from students for these types of materials, the Faculty Multimedia Development lab in Berryhill Hall teaches medical school faculty how to create their own multimedia presentations.



The primary goal of the lab is to make these new technologies accessible to faculty. The lab is equipped with 11 state-of-the-art computers; flat bed, slide, and X-ray scanners; digital cameras and camcorders; color printers; digital video editing equipment; popular software programs and more. Perhaps the most valuable aspect of the lab is the expert staff who understand multimedia development and can answer questions ranging from printing problems to graphic design. The staff guides faculty in their projects and teaches them the skills they need to make their ideas a reality. At least twice a week, small classes are taught on subjects such as scanning, imaging software, and HTML. The doors are open from 8 a.m. to 5 p.m. for those needing one-on-one help.

Since the lab's opening, many projects have been completed and now enhance the students' online environment. One of the most far-reaching projects has been the digitization of part of the school's vast video library. From April to October of 1998, over 100 of the most used videos were placed on the school's Intranet network. Students can now watch videos that are required for classes such as Pathology, Gross Anatomy, MPAC and Computing in Medical Care on their own laptops whenever they wish. In September 1998, more than 4,000 videos were viewed online.

The first-year course in Microbiology uses lab scanners and staff expertise to digitize huge numbers of slides previously shown to students only during class or as part of a limited number of checkout sets. These slides are now incorporated in the online Microbiology syllabus for students to view on their own time. With the lab's microscope and digital camera setup, Microbiology and other courses can easily create new digital images for use in class and for the Web.

The Computing in Medical Care course has predictably taken the largest role in using the Web for instruction. This course is taught principally online. Videos are shot using the lab's digital camcorders, and then edited and sent online without ever being stored to traditional tape format. Classes and assignments are posted a week before the class meets, and the students are encouraged to watch videos or listen to audio files in advance and use class time to discuss assignments. The course teaches students how to better use current information technologies for learning and working in the health affairs world.

Multimedia materials such as images, radiographs, audio, video, and PowerPoint presentations are becoming fundamental to the curriculum. Online materials are essential for modern teaching and learning. The lab offers faculty a way to create these new materials for students and incorporate them into their curriculum as part of the electronic learning environment at the School of Medicine.

This lab is funded by a $100,000 1996-97 Chancellors Instructional Technology Grant submitted by Eve Juliano, OIS, and Gerry Oxford, Cell and Molecular Physiology. It is run by the School of Medicine's Educational Technology Group.

For more information, visit http://www.med.unc.edu/ois/etg/ or email edutechno@med.unc.edu. □

Sites of interest

School of Medicine homepage:
http://www.med.unc.edu/
ETG homepage:
http://www.med.unc.edu/ois/etg/
Occupational Beings:
http://www.med.unc.edu/mahp/rsi/
Substance Abuse Interactive:
http://www.med.unc.edu/soclmed/subabuse/
Family Day:
http://www.med.unc.edu/familyday/

The following links require a SOM ID to see. If you would like a temporary ID and password, please email: eutechno@med.unc.edu.
Musculoskeletal course:
http://www.med.unc.edu/yr2/muscskel/publish/overview.htm
Gross Anatomy course:
http://www.med.unc.edu/yr1/grosanat/publish/overview.htm

Medical Historian Named McDonnell Foundation Centennial Fellow

by Robin C. Gaitens

Keith A. Wailoo, PhD, associate professor of social medicine and history at UNC, has been named one of 10 international recipients of a $1 million James S. McDonnell Centennial Fellowship.

The fellowship targets early career scientist-scholars for work that will contribute substantially to the development of knowledge and its responsible application in the next century. Wailoo will use the award to pursue an extended historical study of disease and the biomedical sciences in the 20th century. In particular, he proposes to examine how people's ideas about their illnesses like breast cancer, prostate cancer and sickle cell anemia have changed over the course of this century, and the extent to which scholarship in the biological sciences and clinical practice has addressed patients' changing concerns and societal perceptions about disease.

Keith A. Wailoo, PhD

As one of two fellowships awarded in the History and Philosophy of Science, Wailoo's historical project has the unusual virtue of bearing on contemporary problems. "A central feature of 20th century biomedicine," Wailoo said, "is that our scientific understanding of diseases like breast cancer, for example, has been changing constantly and dramatically — most recently with the discovery of a breast cancer gene.

"These developments have complex implications for people's lives and their perception of what it means to have breast cancer," said the McDonnell Fellowship recipient. "For example, mothers and daughters begin to think of breast cancer as familial. And these developments can have important implications for clinical practice — leading, for example, to the increasing practice of preventive mastectomies." The point of his historical study, Wailoo said, is to investigate and assess this interaction of science, medicine and human understanding about disease throughout the 20th century in cancer, and three other areas of biomedicine — genetic disease, immunology, and pain. "It would be a mistake," he said, "to think that we understand these recent developments without paying attention, for example, to how and why women's health issues have become as important as they have since the 1960s." Thus, his work brings together the study of medicine and science with the study of culture and society.

Wailoo's award is among 10 fellowships in five categories — Astrophysics and Cosmology, Human Genetics, Global and Complex Systems, Human Cognition, and History and Philosophy of Science. Susan Fitzpatrick, McDonnell Foundation program director, said, "The research carried out by the recipients certainly has the potential to transform the way we think about our world." Wailoo, along with recipients working in France, Canada, Germany, Scotland, and the United States, received their awards in a ceremony during the National Academy of Sciences meeting in April.

Over the next eight years, Wailoo will also use the award to organize public symposia on such topics as "Cancer in 20th Century Society," "Immunology: From Vaccines to Transplants," and "Pain in America," as well as several small scholarly workshops on the history of biomedicine in these areas. "These workshops and public conferences will allow physicians, historians, scientists, and the public to come together to have serious discussions about how we've done in our handling of disease problems from diphtheria and infectious disease to cancer and AIDS in this century," he said. Books on these topics will come out of the research, as will a final book titled "The Pursuit of Clinical Science in the 20th Century." "By looking at how people, scientists, and physicians at other times and in other places have dealt with disease," Wailoo said, "I hope this project will inform how our own society responds to new developments, in areas from gene therapy to the HIV vaccine."

A very productive scholar, Wailoo, 36, received an American Public Health Award for his first book, "Drawing Blood," a study of clinical medicine, laboratory science, professional rivalries, pharmaceutical progress, and race and gender relations in 20th century notions about blood and blood disease. His forthcoming book, "Dying in the City of the Blues," is an absorbing study of sickle cell anemia and black health in Memphis, Tenn., and will be published by the University of North Carolina Press.

Candidates for the fellowship were judged by an international panel of distinguished scientists and scholars who considered the entrants' previous scholarship and promise, excellence of proposed research programs, and ability to communicate the relevance of the research to broad audiences. The 10 recipients showed a remarkable ability to discuss the relevance of their research to issues facing society as it enters the 21st century. "James S. McDonnell believed that science and technology gave mankind the power to shape the future and the obligation to shape that future to benefit what is noble in mankind," said John McDonnell, son of the aeronautics innovator and founder of the James S. McDonnell Foundation, a major private philanthropy headquartered in St. Louis. "These recipients personify my father's ideals." The awards mark the 100th anniversary of the birth of the senior McDonnell.

The James S. McDonnell Foundation was established in 1950 by the late aerospace pioneer and founder of the McDonnell Douglas Corporation. The foundation awards approximately $20 million a year in support of biomedical and behavioral research.

A Mind Unreal

by Angela Spivey

The first time Rose had a vision, she "took it as something spiritual." She heard animal noises and furniture moving. She says, "I felt this evil presence on my chest. I saw writing on the wall. It looked like another language. I was scared."

That vision lasted only about three minutes. Afterward, she put on some soothing music and tried to calm down.

She had another short vision about a year later. But the next year, when she was 33, Rose had a longer episode of delusions and hallucinations — what psychiatrists call psychosis, in which a person loses contact with reality.

This time, she says, "I was living it out. I was identifying myself with people in the Bible. I went to a park and kept vigil there, as if I were at the garden of Gethsemane." She recited the Psalms out loud, sang religious songs. "I saw spirits," she says. "They looked almost like ghosts — they were transparent.

"Then I became afraid. I thought I had missed the rapture. I thought that I needed to stay there, at the park, but that if I did, I might die. But then, something inside me said, 'Just go *home*.' " On her way home, she saw auras around the houses she passed. Each house was surrounded by a different color.

This episode lasted about three days. Then a concerned neighbor took her to the hospital. "He had kids," Rose says, "and I trusted him."

Doctors diagnosed Rose with schizophrenia. The disorder affects two million Americans, making it twice as common as Alzheimer's disease and five times as common as multiple sclerosis. Symptoms and their severity vary, but can include auditory and visual hallucinations, delusions, disordered thinking, lack of motivation, and an apparent inability to express emotion or acknowledge it in others.

Shortly after she began taking antipsychotic medication, Rose's delusions faded. But she became clinically depressed. "If it wasn't for my parents' help, I couldn't have made it," she says. She's returned to the hospital for schizophrenia and depression several times in the past five years, but only for brief stays.

Like many sufferers of schizophrenia, Rose has had to struggle at times to figure out what is real. Researchers, as well, are haunted by schizophrenia. They know that it's a physiological disorder of the brain, but the exact cause is still a mystery.

"The brain is so complicated that we have no real understanding of how it works," says John Gilmore, MD, associate professor of psychiatry. "We have ideas about systems and structures, but there are tens of thousands of molecules in the brain that we have no idea what they are, much less what they do.

"When you start out," Gilmore says, "you think, 'I'm gonna figure this out.' Then you realize, 'No, probably not in my lifetime.' You get to a point where you have to come to terms with that and feel good that you're contributing a little piece to this puzzle."

It *is* known that part of the problem is caused by an imbalance of neurotransmitters, which are chemicals that carry impulses between nerve cells. Psychotic reactions can occur after taking amphetamine or cocaine, drugs that increase the amount of the neurotransmitter dopamine circulating in the brain. And most antipsychotic drugs work by blocking dopamine receptors. But these drugs don't fix the underlying problem — they only reduce symptoms. So dopamine is probably only part of the answer. Other neurotransmitters such as serotonin and glutamate are thought to be involved too.

It's also known that complications before birth increase the risk of developing schizophrenia. Research has shown that when a pregnant woman has a nutritional deficiency, her child has a higher risk of developing schizophrenia, Gilmore says. And exposure to flu during pregnancy can also increase the risk.

Gilmore is testing the possibility that proteins involved in the immune response might explain the connection between prenatal infections and schizophrenia. When an infection strikes, the body produces higher levels of cytokines, proteins that help transmit signals between cells. But these proteins can also affect development of the brain's neurons. Gilmore's lab grows neurons from rats in culture, then exposes them to cytokines. He's found that high levels of certain cytokines decrease the survival of neurons that regulate dopamine.

"Our hypothesis is that these cytokines find their way to the fetal brain and very subtly alter the developing neurons so that they may die before they're supposed to, or they may not develop the correct synapses," Gilmore says.

Though sufferers of schizophrenia share similar symptoms, their illness may have different causes. Schizophrenia is not a well-defined disease, but a disorder — a group of symptoms, says Diana Perkins,

Jeffrey Lieberman, MD, an internationally-recognized leader in schizophrenia research, heads Carolina's team of experts on the disease.

MD, associate professor of psychiatry. Some researchers prefer to use the term "the schizophrenias" rather than "schizophrenia," according to the *Harvard Mental Health Letter*.

The course of schizophrenia can be different for each person. Most patients recover from their first episode. But after five years, more than 70 percent of them will have another bout with the illness, says Fred Jarskog, MD, assistant professor of psychiatry. Some have only occasional relapses, while others continue to be chronically ill. "It's a very heterogeneous illness," Jarskog says. "That's one of the difficulties of dealing with schizophrenia."

Heredity does play some role. A child of two parents with schizophrenia has about a 40 percent chance of developing it. But genes aren't the only factor. Among identical twins of schizophrenics, the disorder occurs at a rate of only 30 to 50 percent.

The risk may also depend partly on environment, says Jeffrey Lieberman, MD, professor and vice chair of research in psychiatry. He compares schizophrenia to diabetes. Just as someone genetically predisposed to diabetes may develop it earlier and with a higher degree of certainty if they eat poorly and don't exercise, someone with a predisposition to schizophrenia can end up with a more severe form of the illness if they are exposed to more stresses that may set off the disorder, such as recreational drugs, emotional upheaval, or life changes, Lieberman says.

In most cases, schizophrenia first appears without warning when sufferers are in early adulthood or later adolescence, the time when many people leave home, begin college or a job, get married, or experiment with drugs. "Life becomes a lot more complicated," Lieberman says. "If your brain has some potential for malfunction, it will probably show up at this time."

Also, late adolescence is when the brain fully matures. Throughout childhood, the neurons in the brain are continually forming new, elastic connections. But as the brain matures, connections are refined and unneeded ones are destroyed. This "sunaptic pruning" may unmask the chemical imbalance or other problem that causes schizophrenia, Lieberman says.

And the brain structure of some people with schizophrenia is slightly different than that of people without the disorder. For instance, magnetic resonance imaging shows that some sufferers have slightly enlarged ventricles, which are fluid-filled cavities in the center of the brain. This can indicate brain atrophy. But it's unclear whether these abnormalities were there from the beginning and contributed to the disorder, or if they're the result of damage caused by psychosis.

There's evidence for both ideas. Lieberman has led a study that found that the earlier schizophrenia is treated, the better the outcome. This suggests that if the psychosis and chemical imbalance are allowed to continue, it damages the brain, he says, which would explain why, with each successive relapse, most patients recover less and less of their former function.

But, differences in brain structure have been seen in people who have just begun their first episode of schizophrenia, suggesting that problems can begin early in life, Gilmore says. "If you look at the postmortem brains of people who have schizophrenia, there are very subtle abnormalities that are consistent with early brain-development problems." It may be that different forms of schizophrenia cause changes at different times.

Right now, there is no cure for schizophrenia. The main treatment is antipsychotic medicine. But establishing a rapport with the patient is also important, Jarskog says.

"I try to talk with them about practical things, give them basic advice to help improve their day-to-day living," he says. "If people don't feel we really care about them, that they're just being fed these medications, it usually doesn't help any illness."

It's common for patients to decide to stop taking their medication, partly because of the harsh side effects of many antipsychotics. These include sedation, dry mouth, blurred vision, restlessness, and tardive diskinesia, which is an involuntary movement of muscles that causes writhing, jerking motions. Tardive diskinesia can be irreversible, even when people switch or reduce medications.

"We're trying to convince people that despite these very unpleasant side effects, they should stay on the medicine," Jarskog says. "It's a very tough sell." Carolina's Department of Psychiatry is leading an international study that will find out if a new drug causes fewer side effects and is more effective than traditional medicines.

While the symptoms can't be ignored, sufferers such as Rose do look for ways to deal with them. She says, "I think my biggest frustration is not appreciating life, not wanting to live. But it's gotten better. There was one point where I couldn't laugh. But now I'm able to express a full range of emotions.

"Each person finds their own coping mechanism," Rose says. She hasn't given up her faith and finds comfort in church. She also works part time and gets support from friends and from her treatment team at UNC. "The worst thing," she says, "is to be isolated." □

This article was excerpted from Endeavors *magazine, published by the UNC-CH Office of Graduate Studies and Research.*

Dr. Teacher

by Andrea Beloff

First- and second-year psychiatry students at UNC's medical school are getting a good dose of the great American past-time in addition to the rigors of an academic curriculum.

"Baseball can be considered a metaphor for life," claims their professor, Robert Bashford, MD '71. "When you first play baseball as a child, it's a very simple game — you just need to know how to run, throw, catch and hit. But as you study baseball more, you realize the game is filled with nuance and a complex set of algorithms of knowing how to react to a variety of outcomes. In the end, though, you return to the simple fundamentals of running, throwing, catching and hitting.

"Medical school is like baseball in that after we shovel reams of information at our students, they need to return to the fundamentals of listening to people and following the basic medical framework."

When Bashford's not expositing on pitches and strikes, he may be joking about the finer aspects of his alma mater, N.C. State.

"I tell a lot of stories and anecdotes," says Bashford, clinical associate professor of psychiatry. "I have this theory that if you make it interesting, they're going to learn it better."

Judging from his students' performance, Bashford's right. UNC's behavioral science students score 5 percent higher than the national average on the Step One United States Medical Licensing Examination. Attendance in Bashford's classes has never been better, and Carolina medical students show more interest in pursing psychiatry than their peers — UNC students choose the field twice as often as the national average.

Bashford — who also supervises psychiatry interns, residents and fellows, advises third- and fourth-year medical students and directs the adolescent and child outpatient clinic — teaches with the belief that students learn clinical skills best by modeling their mentors. "When I was in school, watching the faculty was the most important piece of my scholarship," he says. "I wouldn't remember the books, but I'd remember what my favorite professor did, how he treated patients."

A new professorship created by UNC School of Medicine alumni confirms Bashford's theory that teachers make a lasting impact on medical students. In less than three years, the Loyalty Fund raised the $250,000 necessary to establish the Medical Alumni Distinguished Teaching Professorship. Bashford was named the first recipient of the three-year award, which includes a monetary stipend.

> "Every one of our alumni is the product of a great teacher. This professorship is our way of saying that we think teaching is important."
>
> *John Foust, MD '55*

"I was not expecting it at all," says Bashford. "I got a letter from the Dean asking if I would like to accept the award. Would I? Of course! I am absolutely privileged."

The professorship is designed to preserve UNC's heritage of teaching excellence in the field of medicine. Essentially, it allows the best teachers to do what they do best — to teach.

"If you didn't have teachers, you wouldn't have a university," says John Foust, MD '55, chair of the Loyalty Fund steering committee, which reviewed a slate of candidates culled from recent teaching award recipients. "We hope this award will acknowledge outstanding teachers in a demonstrative way and give them material support they wouldn't get otherwise.

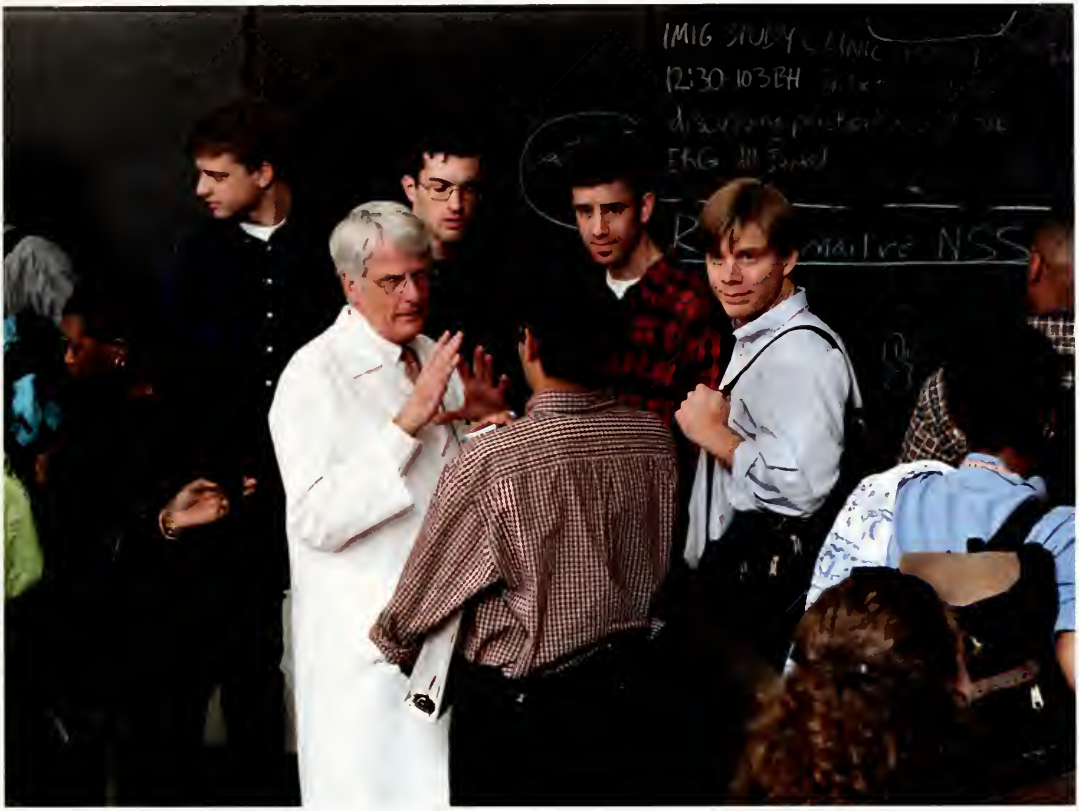
"Every one of our alumni is the product of a great teacher," Foust adds. "This professorship is our way of saying that we think teaching is important."

In the past four years, Bashford has received three Excellence in Teaching awards from UNC's Whitehead Medical Society. He also was voted best director of a preclinical course by UNC medical students in 1996. That same year and in 1997, he was invited to give the commencement address to UNC's medical school graduates.

"Dr. Bashford reaffirms the importance he attaches to teaching through the enthusiasm he demonstrates in every encounter with his students," says Dean Jeffrey Houpt, MD. "His commitment is so evident that it is impossible for students to ignore him — instead they must interact with the material he presents."

Bashford says exposure to medicine at a young age encouraged him to become a doctor. "My mother and I had great encounters with physicians time and time again, even though sometimes the outcomes were the worst they could be," explains Bashford. "The doctors were so aware, so supportive, so concerned."

Bashford came to the UNC School of Medicine in 1967, finished his residency in obstetrics at North Carolina Memorial Hospital, and went to work at a private practice in Wilmington. He enjoyed caring for new mothers and their babies,



After class, psychiatry professor Robert Bashford, MD '71, is inevitably surrounded by students for whom the 90 minutes of lecture and discussion were not enough. This, in addition to his many teaching awards, exemplifies the appropriateness of Bashford being named the first Medical Alumni Distinguished Teaching Professor, a title he will hold for three years.

but Bashford recognized that his favorite part of medicine was talking with his patients. Recalling his earlier interest in psychiatry during medical school, Bashford returned to Chapel Hill in 1987 to complete a residency and fellowship in psychiatry. "Listening to people's stories seemed like such an interesting way to make a living," he says.

The career change opened up the opportunity to teach, says Bashford, who joined the UNC faculty in 1991. "I couldn't believe they were paying me to interact with students and residents and help them listen to people," exclaims Bashford. "I ought to have been paying them!"

The emotional component of medicine is what he hopes his students take away from his classes. One-third of all patients have a different complaint than what they told the receptionist when making an appointment with a physician, so doctors must listen hard to what patients say in order to find out what they really mean, says Bashford.

Even in the classroom, Bashford tries to remain sensitive to people's emotions. "In any given class, you're going to have a certain number of students who have had experience with mental illness, whether personally or through relatives," shares Bashford. "Every day during lecture, I look in those faces and see at least one person tear up. I know I've hit something there — that's different than teaching the Krebs cycle."

After class, Bashford waits until the last student has left the classroom before he heads back to his office. In the same way that his teachers were mentors to him, he makes himself available to mentor his own students.

Bashford thanks UNC's former students for promoting teaching. "The alumni have promoted teaching by setting up a professorship that will continue year after year," he says. "They hit a grand slam with this one, and in this case, everybody wins."

A Seat With a View

Horace Whitfield plays the part of captain as UNC faculty members board the Elizabeth II for a tour and dinner during a visit to Manteo on the second day of the 1998 bus tour. The ship, a replica of a 16th-century sailing vessel, is docked at the Roanoke Island Festival Park.

By Timothy P. Bukowski, MD

Editor's Note: Each May for the past three years, about 30 new UNC-CH faculty and administrators have embarked on a weeklong road trip across the state, The Tar Heel Bus Tour. They cover 1,200 miles in 38 counties, learning about the real North Carolina. The School of Medicine's Tim Bukowski, a pediatric urologist, was a participant in the 1998 tour. His reflections follow.

"Dear Carolina Colleagues: Welcome aboard the second Tar Heel Bus Tour..."

And so began an introductory letter from the Chancellor regarding a tour that was designed to provide new faculty with insights into what North Carolina holds and where the university fits into the state. Being one of two medical school faculty on the tour and one of only a handful of scientists, I made it my goal to consider how the medical school could further grow and benefit from the state, and the state benefit from the medical school.

On a personal level, having lived here just over two years, I did not yet have a handle on North Carolinians, what makes them unique, and most importantly, whether I fit in here. The stereotypes and misconceptions I grew up with, having lived my first 30-something years above the Mason-Dixon line, made it awkward at times to live and work here, let alone ask people to trust me with taking care of their children. North Carolina has a rural, agricultural base, different than the large urban industrial setting I trained in for the last 15 years. Are the same treatments appropriate for the rural patient as the big city dweller? What are the resources to work with? What are the important issues for North Carolinians?

Our group represented pretty much every school within the university, both graduate and undergraduate, numbered by experienced profs and those fresh from school. The tour took us from Chapel Hill to the coast, to the mountains and back. We visited places and people that had a connection with the university, and provided an opportunity for us, the university, to connect with the people. Quite honestly, visiting with the people was the most rewarding part of the tour. It brought home what I like so much about medicine — talking with the people.

The first stop was Ft. Bragg, where we heard about the technological advances in their paratrooping and Army divisions. Some of the technological advances for warfare are being adapted toward surgical interventions as well. This includes some technology for endoscopic and laparoscopic surgery, as well as equipment for telemedicine. We were reminded of the usefulness of telemedicine during the Gulf crisis, and the use of military smart technology has been useful in noninvasive procedures.

Our Ft. Bragg tour ended with a jump from the parachute tower, which is as close to a leap of faith as I have taken in recent years. There were a number of school children at the base that day, and they certainly seemed to be jumping without hesitation. Thus, when my turn came, I was somewhat humbled by the daring of the children jumping without any hesitation.

With everyone's jump a success, we moved on to UNC at Pembroke, where we had a discussion of the Lumbee Indian presence in the area and in the state. The Lumbee are very proud of their heritage and have learned quite a bit during their struggles for federal recognition. Pembroke has become a center for tribal learning, both in higher education and in outreach programs for local school-age children. Unfortunately, few members of the Lumbee tribe venture toward Chapel Hill for school, depriving us all of a greater opportunity for cultural exchange.

Moving on towards the coast, we had dinner in Washington and visited the North Carolina Estuarium, an aquarium that focuses on estuaries — areas where salt and fresh water mix. Having grown up on the Great Lakes, this certainly was a new concept for me. I learned that there are huge areas within the North Carolina sounds that have their own ecosystem unique to this part of the United States. It is here that pfisteria has been a major topic of discussion in both the lay and scientific press. Pfisteria

provides a paradigm for the study of how agriculture, economics, science and medicine can meet in order to solve the various problems of this ecological disaster. Water quality of the rivers is affected by nitrogen-loading from water treatment plants, industry, agriculture and residential run off, acid rain, and probably ground water pollution by the hog and poultry farms. The algae blooms and phytoplankton growth, in addition to oxygen depletion, is probably what causes the fish kills.

The next day we arrived at Hope Plantation where we met with a number of volunteers with the North Carolina Breast Cancer Screening Program. The program is essentially a paradigm for volunteerism. Lay health advisors are drafted by their friends to discuss breast cancer and bring it out into the open among the women in eastern North Carolina. The slogan "Health is Wealth" is used to increase understanding of health as a priority. The women have arranged Mother's Day projects and pot luck dinners, and have even influenced the wives of ministers to push their husbands into discussing breast cancer during church. While this is meant as a breast cancer screening project, secondary gains such as routine physical exams among these previously untrusting women have occurred, much to the benefit of society there. This paradigm might be useful for all sorts of rural health issues, particularly other prevalent cancers or illnesses that exist within communities whose health care needs are underserved due to poor funding or a poor educational base.

In Edenton, which I learned was North Carolina's first capital, it was most exciting to meet Frances Inglis, who is the niece of Frank Porter Graham. For those who do not know, Frank Porter Graham was a major innovator and advocate within the state university. He increased the social influence of the university on the state, mainly through the legislature. Many of the outreach programs that currently exist are due to President Graham's insistence.

We then circled around through the Outer Banks to visit the Nags Head Wood Preserve, which was established to maintain a glimpse of the biodiversity of the coastal waters. During an overview slide show I learned why hurricanes are most likely to hit the coast in this part of the United States, and that the best fishing on the east coast is off the coast of the Outer Banks. As many have noted, the Outer Banks have grown at a much higher rate than the rest of the state due to the better water supply and waste disposal that are now available in that area.

That evening, the Roanoke Island Festival Park proved again that the university's influence has reached deeply. Paul Green, a faculty member at UNC, developed the first summertime theater back in the early 1930s. His play, "The Lost Colony," which outlines the failed attempt to establish a colony here by Sir Walter Ralegh in 1585, is still playing there today.

On the morning of the third day we were off to Somerset Place in Creswell, Washington County. The plantation there is being archeologically restored to its 18th and 19th century condition. As early settlers moved inland from the coast, they moved to places like Creswell, which was swamp in the mid- to late-1700s. Wide 20' canals were dug to provide both transportation and drainage and irrigation of this land along the coastal plains. Large numbers of slaves were brought in to help run the plantation, which was profitable until after the Civil War. Currently, the re-establishment of the plantation, as well as a study of artifacts and the quality of life there, has been the project of several UNC anthropologists.

I found it interesting that even back in the colonial days, the hospital was a major part of the plantation. Josh Collins, the owner, knew that the health of his slaves meant the financial health of his plantation. Although tribal medicines were theoretically forbidden on the plantation, physicians of those days looked the other way when patients attempted to revive these traditions.

Moving on through Raleigh provided a chance to meet at the Department of Environment and Natural Resources, where we met for a round-table discussion of environmental policy in our state. Issues of land use, livestock operations, soil and water conservation were discussed and argued back and forth. It became apparent during the meeting, as on other stops, that science and technology will drive a major part of growth and development, and that science needs to be further incorporated into the education of each citizen. Without an understanding of science, our citizens won't have an adequate understanding of technology. While math and English are important, it is science and technology that will drive our work force in the future.

Physicians especially are able to provide assistance in teaching science. We can provide drop-in classes or lectures on the practical aspects of science for students, as well as providing small, short-term seminars for some of the teachers in science. Already a program along these lines has been set up by Michael Zenn in our Department of Surgery, who visits local high schools and talks to students about tobacco and the damage it can cause, as well as some of the effects of sun damage. His perspective as a plastic surgeon, complete with graphic slides of patient cases, provide a compelling and memorable lesson.

From Raleigh we traveled to Siler City, which provided much insight into North Carolina's growing Hispanic population. Over the past five years the city's population has doubled, growing from 4,000 to 8,000 mostly Hispanic people. Next year it is predicted that 60 percent of the kindergarten class will be Spanish-speaking, and the

Sid Luck, right, a 5th-generation potter, and his son Jason, sort clay before throwing a pot at their shop, Luck's Ware, in Seagrove.

The bus carrying new faculty and administrators moves down from Grandfather Mountain after a visit.

teacher population is not prepared for bilingual education. Because most of the students have very little English spoken at home, the barriers to education for these children — whose parents may be undereducated relative to the United States population — are great. The medical center can help by increasing its publications and information for Hispanic patients, as well as by providing educational opportunities for health care professionals to better serve the Hispanic population. We cannot provide care to a population unless we can overcome the language and cultural barriers.

Continuing west the air became a bit cooler and the water ran a bit clearer. We stopped in Seagrove, just west of Asheboro, which has been a popular area for potters for the past few hundred years. Meeting Sid Luck and his son Jason was an opportunity to observe where the old and the new work together. Sid Luck is a 5th generation potter who began turning pots at age 12. He earned a chemistry degree at N.C. State, returned home to teach school, and eventually re-established himself as a potter. He discussed with us the chemistry of pottery and, thus, provided a deeper understanding of the scientific background of the glazes and their importance, as well as the clays, in making his art. The father's influence on the son was evident, as the science background provided by his parents has stimulated Jason's interest in computers and math. Currently a student at Carolina, Jason plans to follow in his father's footsteps as a full-time potter after establishing businesses in the area of computer science.

After Seagrove we visited factories, including a furniture factory in Thomasville and a textile plant. We met furniture makers who were versed in the old style and the new. Computerized laser carving has turned the furniture company from an old-fashioned industry to a high-tech industry, using computers and lasers similar to those we use in medicine. The modern tools provide flawless reproduction capabilities and a precision that the human eye and hand certainly cannot match. Computer-assisted design for medical devices and pharmaceuticals are on the way, and our university needs to instigate and maintain some work in this area.

At Unifi, Inc., the textile plant is almost completely computerized, and robots have replaced most of the workers. Machines are immediately identifiable from the minute you walk in the door. There is a large computer area that controls spinning and weaving operations, and delivery robots remove spools of yarn from one machine and place them on another. There is a large area where only machines are allowed and humans are prohibited from interfering.

As the day drew to a close, we arrived at Grandfather Mountain. There I learned of some of the cultural aspects of mountain life. The Jack Tales and Fiddler's Grove was entertaining as well as insightful into the history of the mountains. Acid rain is certainly impacting this area of the state, and we will lose a precious resource if not addressed in the near future.

The Tar Heel Tour left me with the impression that our state not only covers a large area but a large variation in ecology and culture. Despite this breadth, it is a comfortable and cozy state, various institutions having forged a common ground — first the plantations, then county and state politics, and most recently, the university. North Carolinians really do identify the university as their own and are genuinely proud of it. UNC is an excellent resource for many people and its impact is enhanced by outreach programs such as the Breast Cancer Research Program and even the Tar Heel Bus Tour. As physicians, we can help the state succeed in the 21st century by acting as a scientific resource for our communities.

I learned that North Carolinians identify themselves by the county they have come from. We ought to work to retain this unique characteristic. For example, in the new Children's Hospital we can dedicate patient rooms for each county or decorate with a work from each area of the state. The idea is to make children more comfortable when they arrive at our institution by seeing something they identify with.

I really enjoyed meeting faculty from other disciplines and found Tar Heels to be creative, energetic, and friendly. Next time I am out on the road I will be sure to ask people how things are in their neck of the state, and will let them know that I work in Their University. □

Participants in the 1998 Tar Heel Bus Tour pose for a group picture at the Green Park Inn in Blowing Rock before heading out for the fifth and final day of their tour of North Carolina. The author is eighth from the right, in the back row.

Medical Alumni Association Honors Six

The School of Medicine and the Medical Alumni Association presented five Distinguished Service Awards and the Distinguished Faculty Award April 23 during the annual Spring Medical Alumni Banquet.

The Service Award recipients are George L. Irvin III, MD, professor of surgery and chief, Endocrine Surgery Section, University of Miami School of Medicine; Charles B. Nemeroff, MD, PhD, professor and chair, Department of Psychiatry and Behavorial Sciences, Emory University School of Medicine; Duncan S. Owen, Jr., MD, professor of internal medicine, Medical College of Virginia; James C. Parke, Jr., MD, retired chair, Department of Pediatrics, Carolinas Medical Center; and R. Bertram Williams, Jr., MD, retired chief of medical staff, New Hanover Regional Medical Center.

Irvin

The Distinguished Service Award was established in 1955, on the 75th anniversary of the founding of the School of Medicine, to recognize individuals who made significant contributions to the establishment and early growth of the medical school. Today, the award honors alumni and colleagues whose distinguished careers and unselfish contributions to society have brought honor to UNC-Chapel Hill and the medical school.

Jeffrey L. Houpt, MD, dean of the School of Medicine, presented the awards.

■ Irvin was honored for his accomplishments as a clinician, scientist, and educator. After completing his surgical residency at UNC Hospitals, he served as a senior investigator in the surgery branch of the National Cancer Institute. Irvin's research into the treatment of patients with hyper-parathyroidism resulted in the development of a technique that eliminated unnecessary surgery.

■ Nemeroff earned two doctoral degrees from UNC-CH — a PhD in neurobiology and an MD. He began his career at Duke University where he attracted major research grants and published numerous articles. Colleagues describe him as a "doctor's doctor" in recognition of his superb diagnostic skills and empathetic treatment of patients.

Nemeroff

■ Owen received his undergraduate and graduate degrees at UNC-CH, completed his residency and fellowship training at the Medical College of Virginia, and then served two years in the Army Medical Corps. Following his stint in the Army, he returned to Richmond to join the medical school's faculty. Recognized as one of the nation's top rheumatologists, Owen is known for his "keen intellect, encyclopedic memory, irreproachable character, and unswerving devotion to his fellow man."

Owen

■ Parke began his medical career with the U.S. Navy, then spent a decade in private practice. In 1968, he joined the Carolinas Medical Center in Charlotte as chair of the pediatrics department — a post he held for 23 years. There, he developed the residency program, created a neonatal intensive care unit, and guided the creation of a clinical genetics laboratory.

Parke

■ When Williams attended the UNC School of Medicine, it was a two-year program; after completing his medical coursework, he transferred to Vanderbilt University and received his MD. After his surgical residency at Vanderbilt University Hospital and two years in the Navy Medical Corps, Williams returned to his native Wilmington to practice surgery. Determined to provide quality health care to the citizens of southeastern North Carolina, he assumed a leadership role in the creation of New Hanover Regional Medical Center.

Williams

The Distinguished Faculty Award was presented to Edward A. Norfleet, MD, professor of anesthesiology and vice chair of the Department of Anesthesiology. James D. Hundley, MD, president of the Medical Alumni Association, presented the award.

Norfleet

Given annually by the Medical Alumni Association, the award recognizes excellence in teaching, contributions to medicine, leadership in physician continuing education and efforts to improve communication among alumni, faculty and North Carolina residents.

Norfleet, a native of Charleston, S.C., received his medical degree from UNC in 1970, and joined its faculty in 1973. Students and colleagues place him among the medical school's most influential educators. In addition to his work at UNC Hospitals, Dr. Norfleet has provided educational leadership to both medical and non-medical agencies through North Carolina and the southeast.

Spring Medical Alumni Weekend

April 23-25, 1999

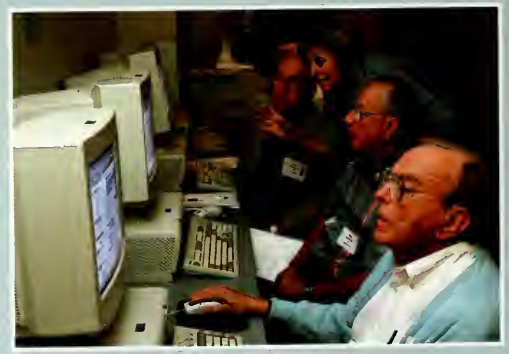
George Watts Hill Alumni Center

◀ *Marie Nash, chair of the Class of 1999 Loyalty Fund campaign, and fellow medical student Jeffrey Brown enjoy the Alumni Banquet festivities.*

▲ *Ask any of the past 10 presidents of the MAA, and they'll tell you they couldn't have done the job without the able assistance of Stephanie Stadler, executive assistant in the Alumni Affairs office. Dr. Hundley expresses his thanks to Stephanie at the Friday evening banquet.*

▲ *Outgoing Medical Alumni Association President James D. Hundley, MD '67 (left), and Medical School Dean Jeffrey L. Houpt, MD (right), present a resolution of appreciation to William E. Easterling Jr., MD '56, upon his retirement as associate dean for Alumni Affairs. Dr. Easterling has served in the alumni position since 1989.*

▲ *The job of Medical Alumni Association president is a family affair. Dr. Easterling presents Dr. and Mrs. Hundley with a gift of appreciation for their year of service.*

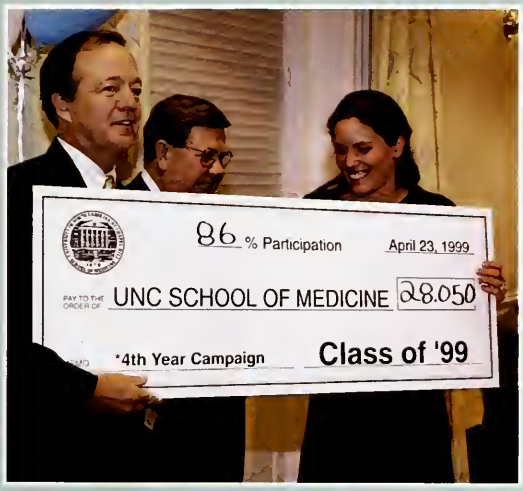


▲ *Outreach Librarian Jill Mayer of the Health Affairs Library assists alumni at Saturday's CME course, "Webbing Into the New Millennium." Mayer's session focused on "Using Informatics to Enhance Medical Practice."*

Senior Awards Banquet

May 14, 1999

Carolina Inn



▲*Marie Nash, chair of the Class of 1999 Loyalty Fund campaign, presents Dean Jeffrey L. Houpt (left) and incoming associate dean for Alumni Affairs James R. Harper, MD '60, with a check representing pledges made by the senior class. The seniors achieved 86 percent participation.*

▲*Fourth-year co-presidents Sanjib Mohanty (left) and Kevin Logel present Stephen J. Kizer, MD, with the Professor Award. The recipient of the Professor Award is selected by vote of the graduating class.*

▲*Noelle Granger, PhD (right), accepts an award from senior class representatives for her work as adviser to the 4th year class advocates.*

◀*The senior awards banquet was a time for both celebration and reflection as another class of Carolina medical students initiate their graduation weekend.*

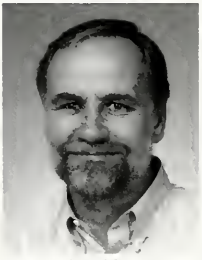
Faculty Notes

Bryan

James Bryan II, MD, professor of medicine, has been named the 1999 recipient of UNC-Chapel Hill's Mentor Award for Lifetime Achievement, which recognizes faculty for admirable work with students inside and outside the classroom. He was honored at an April awards banquet, where he received a plaque and a $1,000 prize.

Students and alumni nominating Bryan praised him for demonstrating the importance of knowing patients and caring for them as individuals.

Bryan, who came to Carolina as a research fellow and instructor in 1964, has been recognized with myriad awards throughout his career. In 1978, he received the Jaycees Distinguished Service Award; in 1984, the UNC Board of Governors' O. Max Gardner Award; in 1991, the School of Medicine's Kaiser Permanente Excellence in Teaching Award; and in 1996, the medical school's Distinguished Faculty Award.



Burridge

Keith W.T. Burridge, PhD, professor of cell biology and anatomy, has received a 1999 Distinguished Teaching Award for Post-Baccalaureate Instruction from UNC-Chapel Hill. Burridge received $5,000 and was recognized at an awards banquet in April.

Burridge, who has been at Carolina since 1981, teaches the medical school's required introductory cell biology course. He has served as the major advisor for 12 doctoral dissertations since 1986 and has been a member of 35 other doctoral committees. Burridge also was named the 1998 Faculty Member of the Year by the UNC chapter of the Student National Medical Association.

William G. Cance, MD, professor of surgery, has been named the first James F. Newsome Term Professor in Surgical Oncology.

A 1982 graduate of the Duke University School of Medicine, Cance completed his surgical residency at Barnes Hospital/Washington University School of Medicine in St. Louis, Mo., and a fellowship in surgical oncology at the Memorial Sloan-Kettering Cancer Center in New York City.

Cance joined the UNC faculty in 1990, and was named chief of the section of surgical oncology in 1993 and director of the UNC Breast Center in 1994. He was named associate director for clinical care at the UNC Lineberger Comprehensive Cancer Center in 1998.

Currently, Cance holds six grants, including four from the National Cancer Institute. His research focuses on the biology of breast and colorectal cancer and has resulted in the identification of new therapeutic targets for which he has three patents pending.

James "Turk" Newsome, MD, served as a distinguished teacher and physician at the School of Medicine from 1951 to 1988. He had a special interest in the teaching of medical students and the treatment and care of patients with malignant disease. This professorship, established by his family and friends in 1998, recognizes his lifetime of work.

Cance will hold the Newsome professorship for five years, after which time a new recipient will be designated.

Two School of Medicine physicians were elected new members of the Institute of Medicine, a division of the National Academy of Sciences. **Joseph S. Pagano, MD**, Lineberger professor of cancer research, and **Kunihiko Suzuki, MD**, professor of neurology and psychiatry, were elected to the organization's senior membership.

Pagano joined the Carolina faculty in 1965, and served as founding director of the UNC Lineberger Comprehensive Cancer Center from 1975 to 1997.

Pagano

He serves as president and chairman of the board of the Association of American Cancer Institutes and is a member of the assembly of the General Motors Research Foundation. He sits on the board of directors of the Burroughs Wellcome Fund and chairs the N.C. Advisory Committee on Cancer Control. Pagano continues an active program of research with the Epstein-Barr virus.

Suzuki, former director of the Neuroscience Center at the School of Medicine, has been a faculty member since 1986 and served as director of the Brain and Development Research Center from 1986 to 1996.

Today, he focuses on biochemistry and the molecular biology of genetic neurological disorders, particularly lysosomal diseases. Suzuki is past president of the International Society for Neurochemistry and the American Society for Neurochemistry and was chief editor of the *Journal of Neurochemistry*. He has published more than 300 full-length articles in his field of expertise.

Suzuki

Frank C. Church, PhD, associate professor of pathology and laboratory medicine, and medicine, has been awarded a Tanner Faculty Award for Excellence in Undergraduate Teaching from UNC-Chapel Hill.

Church

Church joined the UNC faculty in 1985. He holds memberships in the Center for Thrombosis and Hemostasis and the UNC Lineberger Comprehensive Cancer Center. His research is focused on the role of proteases and their inhibitors in blood coagulation and cancer biology; he is currently funded by the National Institutes of Health and the American Heart Association.

Besides teaching an undergraduate biology course, Church lectures to first- and second-year medical students and pathology graduate students. He serves as director of graduate admissions for pathology and is co-director of a summer undergraduate research program.

Myron S. Cohen, MD, professor and chief of the Division of Infectious Diseases, has been named director of UNC's new Center for Infectious Diseases. Cohen also was awarded a 1999 Distinguished Alumni Award from Rush Medical College, where he is a member of the class of 1974.

Tamera Coyne-Beasley, MD, assistant professor of pediatrics, received the 1998 N.C. Gun Violence Prevention Citizen of the Year Award from North Carolinians Against Gun Violence.

Marsha Davenport, MD, associate professor of pediatrics, was named director of the medical school's pediatric clerkship. She is also director of the Turner Syndrome clinic at UNC, medical advisor to the North Carolina Chapter of the Turner Syndrome Society, and a member of the board of the national organization.

Channing J. Der, PhD, professor of pharmacology, was awarded a 1998 Basic, Clinical and Translational Research Award from the Susan G. Komen Breast Cancer Foundation. Der received $191,479 for use in research on the genetic basis for breast cancer. The studies will search for novel oncogenes that may contribute to breast cancer development.

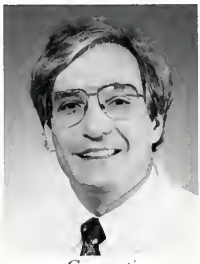
Douglas A. Drossman, MD, professor of medicine in the Division of Digestive Diseases, has received the Janssen Award for Basic or Clinical Research in Digestive Diseases. Leaders in gastroenterology and physiology throughout the world nominated candidates. Winners were chosen by representatives of the field of gastroenterology. Drossman is past president of the American Psychosomatic Society and current chair of several professional associations. He has studied the prevalence of bowel dysfunction in the community and the factors leading patients to seek medical attention and has developed bowel-dysfunction assessment tools, one of which has been translated into seven languages.

Jo-David Fine, MD, professor of dermatology, was a visiting professor at St. John's Institute of Dermatology at St. Thomas' Hospital in London. He lectured on data generated by the National Epidermolysis Bullosa Registry, an NIH-funded epidemiological project under his directorship. Fine, a trustee of the Dystrophic Epidermolysis Bullosa Research Association of America, also was elected to membership in the Medical and Scientific Board of DEBRA Europe.

Fine

Fine also has been awarded a K24 Mid-Career Investigator Award for Patient-Oriented Research by the National Institutes of Health, the first and only such award to be granted in the field of investigative dermatology.

M. Andrew Greganti, MD, has been named the John Randolph and Helen Barnes Chambliss distinguished professor in general internal medicine. A 1972 summa cum laude graduate of the University of Mississippi School of Medicine, Greganti joined the UNC medical faculty in 1977 as assistant professor of medicine. He rose to associate professor in 1983, professor in 1990, and was named associate chair for clinical affairs, Department of Medicine, in 1991. He is a fellow of the American College of Physicians, and received UNC Hospitals' Fleming Fuller Award in 1997 for dedication to compassionate patient care and excellence in teaching.



Greganti

John R. Chambliss Jr. was a 1943 graduate of the two-year UNC School of Medicine. He received his MD from Harvard in 1944, and from 1950 until his retirement in 1990 was an internist at the Boyce-Willis Clinic in his hometown of Rocky Mount. Prior to his death in February 1997, he and his wife, Helen Barnes Chambliss, arranged to benefit the School of Medicine with a contribution to create a professorship in general internal medicine.

Chambliss was president of the UNC Medical Alumni Association in 1968 and received the school's Distinguished Service Award in 1969. He also received the Distinguished Internist Award from the N.C. Chapter of the American College of Physicians after his retirement.

Cherri D. Hobgood, MD, clinical instructor in emergency medicine, was elected to a two-year term on the board of directors for the North Carolina College of Emergency Physicians.

David J. Holbrook Jr., PhD, associate professor of biochemistry and biophysics and associate director of the Toxicology Curriculum, was presented with the Education Award from the Society of Toxicology.

The society presents the award annually to teaching toxicologists who have significantly advanced the field of toxicology.

Since joining Carolina in 1960, Holbrook has played a major role in developing the toxicology curriculum. He also participates in a summer program aimed at recruiting students into medicine and science and has advised 12 doctoral candidates and served on more than 80 students' doctoral dissertation committees.

Joseph K.T. Lee, MD, professor and chair of radiology, has been elected to a one-year term as president of the Society of Chairmen of Academic Radiology Departments. The society is a nonprofit organization whose objectives are the advancement of the art and science of radiology by the promotion of medical education, research and patient care; the development of methods of undergraduate and graduate teaching in radiology; and the provision of a forum for discussion of problems of mutual interest among radiology department chairpersons.

Campbell W. McMillan, MD, professor emeritus of pediatrics, received the 1998 Outstanding Career Achievement Award from the National Hemophilia Foundation. The award is given annually to a person whose work has benefited people with hemophilia, a genetic bleeding disorder that affects about 20,000 Americans.

McMillan

Gilbert C. White II, MD, professor of medicine and director of the UNC-CH Hemophilia Treatment Center, accepted the award on McMillan's behalf during the group's 50th anniversary celebration in Orlando on October 24. The award citation praised McMillan's devotion to his patients and his tireless efforts on their behalf.

McMillan, a graduate of Wake Forest College and the Bowman Gray School of Medicine, was director of the UNC-CH Hemophilia Treatment Center before his retirement in 1992. He wrote extensively on the diagnosis and treatment of bleeding disorders and their complications.

Gregory D. Mears, MD, assistant professor of emergency medicine, was named 1998 Emergency Physician of the Year by the North Carolina College of Emergency Physicians. Mears was recognized for helping Orange County EMS establish a program using First Responder Initial Response Vehicles. The program involves converting former police cars into non-transporting, advanced life support-equipped vehicles that respond to medical situations previously handled only by ambulances. Medical personnel using these vehicles examine the patient and assess the need for dispatching a transport vehicle to the scene. The NCCEP also noted Mears' contribution in the development of its Internet site, for which he serves as administrator and editor.

Gary B. Mesibov, PhD, professor and division director of TEACCH, the Department of Psychiatry's program for people with autism and developmental disorders, has received the Emily and Frank Puzio Award for leadership in improving the quality of life for individuals with autism. The prize recipient is selected each year by The Eden Institute, located in Princeton, NJ, and a steering committee from Princeton University.

Michael R. Mill, MD, is acting chief of the Division of Cardiothoracic Surgery. He succeeds Benson R. Wilcox, MD, who retired after 29 years of service.

Mill

Mill completed a general surgery residency at the University of Colorado Health Sciences Center and a cardiovascular and thoracic surgery residency, as well as a fellowship in heart and heart-lung transplantation, at Stanford University. Since joining the School of Medicine in 1988, he has served as director of Heart and Heart-Lung Transplantation. In 1994 he was named director of the Comprehensive Transplant Center, and in 1996, associate chief of the Division of Cardiothoracic Surgery.

Mill performed both the first heart-lung transplant and the first pediatric heart-lung transplant in North Carolina. He started the first and largest pediatric heart transplant program in the state, and is the university's principal investigator for the Novacor implantable LVAS, which is used as a bridge to heart transplantation.

His clinical interests, in addition to transplantation, focus on pediatric heart surgery with a special interest in neonatal repair of congenital heart defects, and adult surgery with a special interest in the Ross pulmonary autograft procedure for aortic valve disease. His research activities focus on pulmonary blood flow studies in the Fontan circulation.

Etta D. Pisano, MD, associate professor of radiology, has been named to serve on an expert advisory panel for the National Institutes of Health. Pisano's three-year term on the Center for Scientific Review's Diagnostic Radiology Study Section begins July 1. The center is part of the U.S. Department of Health and Human Services in Bethesda, Md.

Study section members are selected based on their demonstrated competence and achievement in their scientific discipline as evidenced by the quality of research accomplishments, publications in scientific journals, achievements and honors, and other significant scientific activities.

Charles S. Roberts, MD, assistant professor in the Division of Cardiothoracic Surgery, has published his second book, "Stoking the Fire: A Surgical Memoir of London," an account of the year he spent at London's Royal Brompton Hospital training under pediatric heart surgeon Christopher Lincoln.

The book also chronicles Roberts' immersion into the London medical and social scenes. Through anecdotes, he describes the differences of foreign medical practice, operating room behavior and social settings.

William A. Rutala, PhD, professor of medicine in the Division of Infectious Diseases and director of the N.C. Statewide Program for Infection Control and Epidemiology, was named to a four-year term on the Health Care Infection Control Advisory Practices Committee of the Centers for Disease Control and Prevention.

Eric Schopler, PhD, professor of psychiatry and co-director of the TEACCH program for people with autism and developmental disorders, was recently honored at the Basic Autism Symposium in Amersfort, Netherlands. A new workshop in Brinkgreve, one of the world's oldest psychiatric hospitals, was named after him. The workshop includes a modern bakery and weaving, woodworking and assembly shops for 30 autistic residents. The hospital, which has operated for more than 500 years, traditionally names buildings for people who have supported the hospital's efforts to provide new treatment options.

Schopler

Philip D. Sloane, MD, MPH, has been named the Elizabeth Shreve Goodwin and Oscar Sexton Goodwin, MD distinguished professor of family medicine. Sloane re-

ceived his MD from the Medical College of Ohio in 1975, and completed a residency and fellowship in family medicine at the University of Miami before coming to Chapel Hill in 1979.

Sloane served as associate director of predoctoral education from 1979 to 1985. In 1986, he was the first family physician in the United States to receive a five-year research career development award from the National Institute on Aging. His recent research has included studies of specialized Alzheimer's care in nursing homes and residential care facilities, the relationship between environment and behavior in long-term care, the management of behavioral problems occurring in persons with Alzheimer's disease, and assisted living.

The professorship was established through the estate of Dr. and Mrs. Goodwin and the contributions of their children, Jacquelyn Burgess, James O. Goodwin, MD, and William S. Goodwin. It recognizes the lifetime interests and achievements of Dr. and Mrs. Goodwin.

Oliver Smithies, DPhil, Excellence professor of pathology and laboratory medicine, was one of four leaders in medical education and science to receive a national award from the Association of Academic Medical Centers at the association's 109th annual meeting in New Orleans in November 1998. In conjunction with a University of Utah professor, Smithies was awarded the Baxter Award for Distinguished Research in Biomedical Sciences.

Three UNC physicians have been named to *Good Housekeeping* magazine's list of the 318 Top Cancer Doctors for Women.

Joel Tepper, MD, professor and chair of radiation oncology, is on the list for top radiation oncologists for colon cancer. **Thomas Egan, MD**, professor in the Division of Cardiothoracic Surgery and director of lung transplantation, is included in the magazine's list of top lung cancer surgeons. **Mark A. Socinski, MD**, assistant professor in the Division of Hematology-Oncology, is listed under top medical oncologists for lung cancer. The physicians were honored in the magazine's March issue. All three are affiliated with the UNC Lineberger Comprehensive Cancer Center.

Tepper

According to *Good Housekeeping*, physicians were nominated by 280 department chairs and section chiefs in surgical, medical and radiation oncology at major medical centers across the United States. To eliminate bias, the nominators were not allowed to recommend any specialists from their own institutions. From a pool of 1,200 nominees, the magazine culled the list to the 318 physicians cited most often.

Egan

Socinski

Harrie Rogers Chamberlin, MD, professor emeritus of pediatrics, died August 31, 1998, at his home of cancer. He was 78.

Chamberlin graduated from Harvard Medical School in 1945. In 1953 he joined Edward C. Curnen Jr., chair of the new Department of Pediatrics at UNC, as Curnen's first pediatric associate. With Curnen, he created programs and policies that influenced the department's development for many years.

Chamberlin specialized in pediatric neurology, with emphasis on deviations from normal development, particularly in the field of mental retardation. He developed an interdisciplinary training center at UNC known as the Division for Disorders of Development and Learning. He directed this institute for more than 21 years before retiring in 1984.

During his career, he was a member of the White House Advisory Committee on Mental Retardation under President Kennedy and chairman of the Medical Committee of the Governor's Council on Mental Retardation of North Carolina.

Samuel D. McPherson Jr., MD, founding chair of the department of ophthalmology, died September 21, 1998, in his Durham home. He was 79.

McPherson obtained a bachelor's degree from Carolina in 1940, then went on to Johns Hopkins for his MD and residency. He joined the staff at UNC as clinical professor of ophthalmology in 1952 and became head of the surgery department's division of ophthalmology. He led the division into its status as a freestanding department in the early 1960s.

In 1955, McPherson also joined the practice of his father, ENT physician Samuel D. McPherson Sr., the founder of McPherson Hospital in Durham. He eventually became McPherson Hospital's chair of ophthalmology and chief of staff, and also served as president of the McPherson Foundation.

McPherson retired from UNC in 1976 and from McPherson Hospital in 1992, when he also sold his interest to the group of physicians that continues to practice there. In keeping with his father's wishes, the hospital then changed its name to the N.C. Eye and Ear Hospital.

John R. "Randy" Perry, MD, associate professor of radiology, died in his home December 6, 1998, after an extended battle against lung cancer. He was 55.

A native of Chattanooga, Tenn., Perry joined the School of Medicine in 1976. He received his MD from the University of Tennessee in 1967 and completed a residency in medicine at the Medical College of Virginia in 1975, followed by a fellowship in nuclear medicine and ultrasound at Carolina in 1976.

Perry was widely recognized for his expertise in developing computer software and technology relating to nuclear medicine practice, and co-authored one of the most widely read textbooks on radiopharmaceuticals.

He served the Society of Nuclear Medicine as a trustee and a member of the House of Delegates, following national election on two occasions. He also served the Southeastern Chapter of the Society of Nuclear Medicine as councilman, treasurer and president. In October 1998, Perry received the Marshall Brucer Award from the Southeastern Chapter for his distinguished service to the chapter and the nuclear medicine community.

Development Notes

North Carolina Children's Hospital Dance Marathon raises $40,000

The first North Carolina Children's Hospital Dance Marathon has raised more than $40,000 to benefit the hospital and pediatric patients.

Of the 32 dance marathons held across the country, the UNC event set a record fundraising total for a first-year dance marathon, according to the Medical Foundation of North Carolina, which raises money for the Children's Hospital and the School of Medicine. Already, the marathon is the largest fundraiser organized solely for the N.C. Children's Hospital, a member of the UNC Health Care family.

The largest contributors were UNC-CH Greek organizations Lambda Chi Alpha and Kappa Delta, which gave more than $9,500. Large corporate donors included Turner Network Television, with $3,000, and the UNC Center for Public Service, which gave $2,000.

More than 100 students participated in the marathon, which was organized by UNC-CH student Michael Bucy. He modeled the fundraiser after a similar event at Penn State, which in its 27th year recently raised $2 million for pediatric cancer patients at the Hershey Medical Center.

"This is an outstanding commitment to the community good," said Phifer Crute, senior development officer with the Medical Foundation of North Carolina. "We are most appreciative of everyone's generosity, particularly the students', and look forward to helping this event grow each year."

Honor Roll of Donors correction

The Winter 1998/1999 issue of the Bulletin included the Medical Foundation's annual "Report to Donors," which features an Honor Roll of Donors who made contributions to the Loyalty Fund during the preceding fiscal year. The names of donors who gave between $1,000 and $9,999 — Loyalty Fund Associates — are printed in bold.

Unfortunately, the names of 31 Loyalty Fund Associates were not bolded during production. The *Bulletin* staff extends its apologies to those Loyalty Fund Associates, whose names appear below:

CLASS OF 1931
J. Allen Whitaker, MD, Rocky Mount, NC

CLASS OF 1937
W. Skellie Hunt Jr., MD, Wilmington, NC

CLASS OF 1958
Allen R. Koenig, MD, Cos Cob, CT
Luther S. Nelson, MD, Amarillo, TX
J. Richard Patterson, MD, Danville, VA
W. Robert Story, MD, Charlotte, NC
Paul M. Weeks, MD, Wrightsville Beach, NC

CLASS OF 1959
Otis N. Fisher Jr., MD, Greensboro, NC
Joel S. Goodwin, MD, Salisbury, NC
Robert L. Green Sr., MD, Winston-Salem, NC
O. James Hart Jr., MD, Mocksville, NC
Morris A. Jones Jr., MD, Durham, NC
David L. Kelly Jr., MD, Winston-Salem, NC
Edward L. Mitchell, MD, Prospect, KY
Julian W. Selig Jr., MD, Elizabeth City, NC
Martha K. Sharpless, MD, Greensboro, NC
Shahane R. Taylor Jr., MD, Greensboro, NC
Charles E. Trado Jr., MD, Hickory, NC
C. Carl Warren Jr., MD, Charlotte, NC

CLASS OF 1960
J. Thomas Fox Jr., MD, Valle Crucis, NC
James R. Harper, MD, Durham, NC
Falls L. Harris, MD, Greenville, SC
E. Carwile LeRoy, MD, Charleston, SC
K. Franklin McCain, MD, Winston-Salem, NC

CLASS OF 1961
H. David Bruton, MD, Carthage, NC

CLASS OF 1966
George T. Grigsby Jr., MD, Las Vegas, NV

CLASS OF 1980
Barry J. Freeman, MD, Pacific Palisades, CA
Sandra K. Haigler, MD, Lexington, KY
J. Patrick Holland, MD, Winston-Salem, NC

CLASS OF 1982
David W. Lee, MD, Tarboro, NC

CLASS OF 1983
Stephen W. Hipp, MD, Charlotte, NC

J.R. Perry Educational Fund

In honor of J.R. (Randy) Perry, MD, whose recent death has been a major loss to the UNC medical center, the Department of Radiology has established an educational fund. The purpose of the fund is to honor outstanding nuclear medicine technology students and to promote the continuing education of nuclear medicine staff technologists, who will be selected based on their excellence in nuclear medicine teaching.

During his almost 25-year tenure at UNC, Dr. Perry had shown great interest in the education of both student and staff technologists in the nuclear medicine field.

Alumni, faculty and staff who wish to honor Dr. Perry by contributing to the educational fund may send their tax-deductible donations to:

J.R. Perry Educational Fund
The Medical Foundation of North Carolina, Inc.
880 Airport Road
Chapel Hill, NC 27514

Alumni Notes

40s

William Tenenblatt, MD '42, has remarried and retired to Lake Worth, Fla. "We enjoy golf, bridge and fun in the sun, and I am now a proud great-grandfather," he writes.

Alexander Mitchell, MD '43, retired from his New Jersey practice in 1986 and moved to an Adirondack mountain camp. He serves as board member for the Adirondack Habitat for Humanity and the Saranac Lake Voluntary Health Association. Mitchell enjoys chamber music, fishing, skiing, canoeing, hiking and visits from his six grandchildren.

John R. Pender, MD '44, retired from general surgery in December 1992. His son, John R. Pender IV, graduated from Jefferson Medical College of Philadelphia in May, and is a first-year surgical resident at East Carolina University in Greenville.

50s

James C. Parke, MD '54, is retired from the department of pediatrics at Carolinas Medical Center in Charlotte. He received the 1999 Distinguished Service Award from the UNC School of Medicine in April and attended the School of Medicine's Class of 1954 Reunion with 15 other alumni and spouses.

James T. Alley, MD '59, founded the Georgia Center for Anti-Aging Medicine in 1997. The center specializes in bariatrics, chelation, natural hormone replacement, nutritional protocols and other anti-aging therapies.

David Kelly, MD '59, professor and chair of neurosurgery at Wake Forest University Baptist Medical Center, is the 1999 recipient of the Harvey Cushing Medal, the highest honor given by the American Association of Neurological Surgeons. The award, given annually, recognizes AANS members for distinguished service to the field of neurological surgery. The organization has more than 5,000 members.

Kelly

Kelly has served as president of several professional organizations, including the American Association of Neurological Surgeons, the American Academy of Neurological Surgery and the Congress of Neurological Surgeons. He has served on the American Board of Neurological Surgeons and the Residency Review Committee for Neurosurgery. His previous awards include the Distinguished Service Award from the UNC School of Medicine.

The Editor
Medical Alumni Bulletin
Office of Medical Center Public Affairs
School of Medicine
CB #7600
UNC-CH
Chapel Hill, NC 27514

Dear Sir:

Re: The picture on page 2, Winter 1998-1999.

Brimstone and gall! What cunning is this? Dr. Jim Bryan old enough for retirement?! It cannot be true. I thought that he, Drs. Henry Lesesne, Floyd Fried, and George Johnson, gentlemen who meant a lot to me during my years at the school, as well as the rest of the lot, were ensconced in some sort of suspended animation. They would always be there at Chapel Hill. Surely, they cannot be ready to retire from the faculty.

... and what is that annoying grey color nipping at my sideburns and beard these days?

Cordially,

Jeffrey Alan Margolis, MD '78

60s

Dave M. Davis, MD '63, is medical director of Piedmont Psychiatric Clinic in Atlanta. He recently enjoyed a visit with his new brother-in-law, National Loyalty Fund Chair John Foust, MD '55.

Malcolm N. McLeod, MD '65, is in private practice of psychiatry and psychoanalysis in Chapel Hill. He is a clinical professor of psychiatry at UNC and is a training and supervising psychoanalyst at the UNC-Duke Psychoanalytic Education Program. His article, "The Evolution of Freud's Theory of Dreaming," was published in *The Psychoanalytic Quarterly*. He and his wife, Vickie, have three grown children, Malcolm (Mac), David and Suzanne. He would be delighted to hear from fellow alumni at MalcMcL@aol.com or 901 Willow Drive #3, Chapel Hill, NC 27514.

F. "Walt" Avery, MD '67, retired from Raleigh Pathology June 30, 1999. His email address is wave@gateway.net.

70s

Richard M. Freeman, MD '70, was elected vice president of the Medical Association of the State of Alabama. His son, Mac, enters Samford University's Cumberland School of Law in Birmingham, Ala., in September. His daughter, Kelly, earned a master's degree from UNC-CH in May. On Sept. 18 she will marry Charles Baum, who received a PhD in economics from Carolina in May. Freeman can be reached at rfreeman@auburn.campuscwix.net.

Robert Newell, MD '74, was named director of the Division of Neonatology at Greenville Children's Hospital in Greenville, S.C. His wife, Patricia, is completing a master's degree in architecture at Clemson University.

Richard Fox, MD '75, is a nephrologist with Carolina Kidney Associates in Greensboro. He was selected by the internal medicine and family practice residents at the Moses Cone AHEC to speak at their June 1999 graduation ceremony. He also was elected a fellow of the American College of Physicians.

During a trip last year to Evanson, Ill., Fox saw classmate **Bruce Berlow, MD '75**, his wife, Lee, and son Cliff. He also saw Ellie Miller, daughter of classmate **Frank Miller, MD '75**, and his wife, Bertha. Fox and his wife, Betsy, will be married 22 years this December. Their daughter, Rebecca, 19, is a freshman in college; their son, Aaron, 16, a sophomore in high school.

David Hopper, MD '76, is the senior member of a still-growing family practice

group in southern West Virginia, Total Life Family Practice Center. The practice has five doctors, a PA and a psychologist. He has been involved in several short-term medical mission trips, as well as a trip to North Korea to assist in addressing the growing tuberculosis problem in that country. Hopper can be reached at wvhop@hotmail.com.

William L. Isley, MD '77, is an associate professor of medicine at the University of Missouri-Kansas City School of Medicine. He is on the staff of Saint Luke's Hospital of Kansas City, the Lipid and Diabetes Research Center and Saint Luke's Medical Education Clinics. Isley can be reached at wisley@cctr.umkc.edu.

Stuart Segerman, MD '78, is an emergency physician at St. Joseph's Hospital in Atlanta. He recently completed the emergency medicine recertification exam, "which made me realize how long it's been since I've taken a test." Segerman assumed the presidency of the Georgia chapter of the American College of Emergency Physicians in June. His children, Jeffrey, 4, and Michael, 2, "are a mess and keep us busy!" Segerman can be reached at stuseg@mindspring.com.

80s

Vincent J. Kopp, MD '82, was promoted to associate professor (with tenure) of anesthesiology and pediatrics and adjunct associate professor of social medicine effective January 2000 at UNC-CH. He was elected to the UNC-CH faculty council effective Fall 1999. Kopp can be reached at vkopp@aims.unc.edu.

Penny Williams, MD '83, left the University of Pittsburgh to work in private practice. She had twin girls, Bailey and Emilie Yousem, on July 12, 1998.

Randall W. Williams, MD '84, has assumed the presidency of the Wake County Medical Society.

Bennie L. Jarvis, MD '85, is pleased to announce the arrival of his third child, Glenn Talton Jarvis, on December 28, 1998.

Jeffrey Bruce Garris, MD, MS '86, is chief of Urogynecology and Pelvic Surgery at Tulane University.

Yvette Bessent, MD '87, started a new practice, Northcross Ob-Gyn Associates, in Huntersville, N.C., in February.

Gordon Early, MD '87, has started his own business specializing in toxicologic issues of occupational medicine. Contact him at gearly@usa.net.

William Clark Davenport, MD '89, was inducted as a fellow of the American Academy of Orthopaedic Surgeons during ceremonies at the academy's 66th annual meeting in February.

90s

Lianne M. deSerres, MD '90, is an assistant professor of pediatric otolaryngology at New York Presbyterian Hospital/Columbia University. She moved to New York in November 1998 with her husband, Guy McKhann, and their 2-year-old son, Guy. Her email address is LMD54@columbia.edu.

Dominic Jaeger, MD '90, is an assistant professor of medicine at the University of Vermont. He married his best friend, Amy Beth Yatsco, PharmD, on March 27, 1999.

Seth Katz, MD '91, and **Crystal Duncan Katz, MD '91**, announce the birth of a daughter, Isabelle Rebecca. Crystal is an anesthesiologist in private practice, and Seth is a reproductive endocrinologist at UC-San Diego.

Bryan Neuwirth, MD '91, welcomed his fourth child, daughter Adasyn Adair, on January 4, 1999. She joins sister Ashtyn and brothers Colyn and Camdyn. Contact Neuwirth at brneuwirth@conninc.com.

Catherine Betor, MD '93, has completed a fellowship in pediatric ophthalmology at the University of Iowa, where she received a grant from the Knight's Templar Eye Foun-dation for her research, "The molecular genetics of intermittent exotropia." She and her husband, Tom, have settled in Shelby, N.C., where she is the new pediatric ophthalmologist with Morganton Eye Physicians, PA. Betor can be reached at tmbetor@ibm.net.

Paige C. Walend, MD '93, announces the birth of a daughter, Sarah Elaine Tamburro, on May 1, 1999. She weighed 8 lbs., 15 ounces and is doing wonderfully. Walend can be reached at paigelarry@mindspring.com.

John Ogle, MD '95, is an emergency physician at Stanford University and a major in the California Air National Guard. He was recalled to Air Force active duty for three weeks in March. His squadron, California's 129th Air Rescue Squadron, served as part of "Operation Northern Watch" patrolling Iraq's northern no-fly zone. He flew 15 combat missions on AWACS, HH-60 helicopters, and HC-130s. His was the combat rescue unit assigned to retrieve any aircrew downed by hostile Iraqi fire. Coalition aircraft engaged Iraqi sites almost daily during the overseas tour. Ogle was back at Stanford as of mid-May.

Kristin Ruth Rogers, MS '97, is an occupational therapist at Mercer County Special Services School District. She has a son, Colin Erin, born May 4, 1997, and a daughter, Ashlyn Nicole, born March 16, 1999. Contact her at markkris@bellatlantic.net.

Deaths

Daniel R. Luke, MD '59

Toni R. Knight, MD '97

Gathered around Dr. Ralph B. Garrison are, from left, Dennis Dross of UNC, Chuck Duckett, Sallie Robinson, Trey Garrison, Chip Duckett, Kim Davis, Debbie Broyles, Derrer Nichols and Amy DeBacker of UNC.

In 55 years as a physician in Hamlet, Ralph Bernard Garrison, MD '31, delivered about 3,500 babies.

Now, he is being honored with a Carolina scholarship in his name, created by four of his grandchildren.

The Ralph B. Garrison Scholarship Fund will provide financial support to a UNC-CH College of Arts and Sciences undergraduate who has an interest in medicine.

The grandchildren are Dr. Ralph H. (Chip) Duckett of High Point; Sarah D. (Sallie) Robinson of Easley, S.C.; Charles G. (Chuck) Duckett of Winston-Salem; and Deborah D. Broyles of Greenville, N.C.

"We wanted to do something to honor our grandfather," said Chip Duckett. "One of his greatest loves is Carolina. And as much as he loved medical school, he held his undergraduate years as nearest and dearest to his heart."

Duckett said that when his grandfather left his Burke County home in 1926 to attend Carolina, he borrowed money from a local businessman to pay tuition and board.

"He was forever grateful and would have wanted another student who needed financial support to have the same opportunity," Duckett said.

President's Letter

First, I want to thank you for honoring me with the presidency of the UNC Medical Alumni Association. It is an honor to be the elected figurehead of such an outstanding group of people as you, and I appreciate it.

It was a delightful year. Playing a role in graduation and the White Coat Ceremony will always evoke special memories. Getting to know some of the faculty and administration has given me confidence that our medical school is and will be strong for a long time. It is sad to see our hero, Bill Easterling, retire, but Buddy Harper will replace him well and seamlessly. Getting to represent you in awarding the Medical Alumni Distinguished Professorship to Robert Bashford and the Distinguished Faculty Award to Ed Norfleet was icing on the cake. The visits to our Dean's receptions in Durham, Wilmington and Asheville were fun and showed me that we have alumni support for the school. Asheville will be memorable, as well, for the skill our pilot showed in dipping and diving through the clouds of a thunderstorm to get there. (This reminds me of some of my fishing trips in the Atlantic Ocean.)

As always, even though I know that I am preaching to the choir who actually read the *Bulletin*, I do want to make some points about supporting our medical school. Please bear with me.

Although we had choices, in the end and for whatever reasons, we all chose the UNC School of Medicine for our medical education. Without that M.D. degree, we would not be allowed to practice medicine. It is the platform on which the rest of our careers has stood, and without it there would have been no residency, no medical career, no gratification from a job that is like no other, and none of the financial security that we enjoy.

The public perception of the value of our degree is related to the public perception of the ranking of our medical school. We are fooling ourselves if we think that people remember how good our school was when we entered. It's what they think of it now that gives them confidence that we come from a prestigious institution, and the attendant confidence that their physicians are well trained.

No matter what financial pressures we are feeling, our school still needs our support. It is feeling the same pressures. To remain strong, it needs us to do for it now what it did for us when we were in need.

So, it's "goodbye" from me as president of our association. Thank you again for the honor and for the kindness and courtesy with which you treated me. I hope Gordon LeGrand, now our president, has as much fun as did I.

Best wishes,

Jim Hundley

James D. Hundley, MD '67

CME/Alumni Calendar

August 21, 1999 — Washington, DC
New Approaches to the Treatment of Bleeding Disorders

September 24-25, 1999 — Myrtle Beach, SC
Venous Disease Conference

September 30-October 3, 1999 — Pinehurst
35th Annual Robert A. Ross Society Meeting

October 8-10, 1999 — Chapel Hill
Business Financial Management for Physicians

October 14-15, 1999 — Chapel Hill
Fall Medical Alumni Weekend

October 23, 1999 — Chapel Hill
Blood Disorders and Cancer in Childhood and Adolescence

October 29, 1999 — Chapel Hill
Domestic Violence Conference

For more information about CME courses, contact the Office of Continuing Medical Education, (919) 962-2118, or toll-free through the Consultation Center, (800) 862-6264. To contact the Alumni Affairs office, call (919) 962-6786 or e-mail medical_alumni@med.unc.edu.

Estate Planning Notice

Many individuals would like to make a major gift to the UNC medical center, but cannot commit current assets for such a purpose. Through a will, however, anyone can make a more significant gift than they might ever have thought possible by designating a specific sum, a percentage, or the residue of their estate for the benefit of the medical center.

To provide a bequest, simply include a paragraph in your will naming The Medical Foundation of North Carolina, Inc. as a beneficiary. For example:

"I give, devise and bequeath (the sum of $_____) or (_____% of my estate) or (the residue of my estate) to The Medical Foundation of North Carolina, Inc., a 501(C)(3) created to maintain funds for the UNC medical center with principal offices located at 880 Airport Road, Chapel Hill, North Carolina."

This language creates an unrestricted bequest for use by the medical center when and where the need is greatest, or you may specify that your gift be used for a particular purpose.

For further information on bequests, contact Jane McNeer at (919) 966-1201, (800) 962-2543, or <jmcneer@email.unc.edu>.

Nonprofit Organization
U.S. Postage
PAID
Chapel Hill, NC
Permit No. 24

8 1999

Summer 1999

Medical Alumni BULLETIN

School of Medicine, University of North Carolina at Chapel Hill

A Farewell and a Welcome

Dean's Page

We are proud that UNC is consistently pointed to as one of the best examples of a "bimodal" medical school, one that achieves a remarkable balance between its public missions of clinical service and its diverse, nationally competitive research programs. In my view, nothing spans these complementary and equally valued areas of institutional excellence better than our MD-PhD Program. This program is now led by Dr. Eugene P. Orringer, professor of medicine and executive associate dean for Faculty Affairs. Under his leadership, our MD-PhD Program recently competed successfully for a very prestigious Medical Scientist Training Program (MSTP) grant from the National Institutes of Health. As we celebrate this national recognition of our MD-PhD Program, I've asked Gene to present a brief summary of the program's history, its current status, and its future goals.

Jeffrey L. Houpt

Jeffrey L. Houpt, MD
Dean, School of Medicine

Over the past 35 years, MD-PhD programs were developed at the best medical schools, their primary purpose being to develop a cohort of physician-scientists with a firm commitment to careers in biomedical research and academic medicine.

While there had always been the occasional student at UNC who sought to obtain both an MD and a PhD degree, a formalized combined-degree program only began in the early 1980s. Early leaders of the UNC MD-PhD Program included Dr. Robert Utiger, Dr. Mary Ellen Jones, Dr. Philip Manire and Dr. Robert Eisenberg. Under their direction, the program began to attract a number of outstanding students. However, despite the presence of an outstanding faculty, the modest institutional investment in the program, which accommodated only one or two new MD-PhD students per year, did not enable the program to achieve the critical mass necessary to compete for an MSTP award.

When asked to assume the directorship in 1995, my goal was to expand the program such that it would become competitive for an MSTP grant from the NIH. Such awards are vitally important because they bring (a) funds to support a number of the combined degree trainees; and (b) national recognition that strengthens the program. To accomplish this goal, our efforts were focused on five specific areas:

1. **Leadership:** I first recruited two new associate program directors, Drs. Leslie Parise and David Weber. The three of us worked very hard to bring vigorous, dedicated and enthusiastic leadership to the program. We also recruited key representatives from both basic science and clinical departments in order to create a new and committed MD-PhD Program Advisory Committee.

2. **Organization:** The overall program was reorganized such that students now complete their first two years of medical school before entering graduate school and selecting their department and mentor. They then complete their program of graduate study before returning to medical school.

3. **Institutional Commitment to the Program:** Previously, the funds available to the program were quite modest. By providing a three-fold increase in funding, then-Dean Michael Simmons enabled us to expand the size of the program, which has now grown from 14 students in 1995 to 39 in 1999 (see graph). In addition to quantity, the quality of the program, as reflected by the GPAs, MCAT scores and undergraduate schools, has also improved dramatically.

4. **The Admissions Process:** The MD-PhD admission system has been completely revamped, and now has its own, independent application process. Students are required to take only the MCAT exam and to fill out a single MD-PhD application form. In addition, we have received a firm commitment of automatic acceptance from the chairs of all participating departments for any MD-PhD student who chooses to complete a PhD in their department.

5. **Interaction Among the Students:** We have worked hard to develop a sense of togetherness and camaraderie among MD-PhD students from all levels. This has been accomplished by: a) implementing a bi-monthly Monday Night Seminar Series, at which all of the students meet and dine with the directors and with a selected speaker before he or she presents an informal seminar; b) scheduling a two-day retreat each August during which new students become acquainted and become fully integrated into the overall MD-PhD Program.

In early 1998, we prepared and submitted an MSTP grant proposal to NIH. Soon thereafter, representatives of the Training Grant Study Section at NIH carried out an in-depth review of the application and made a site visit to Chapel Hill. In their report, they state:

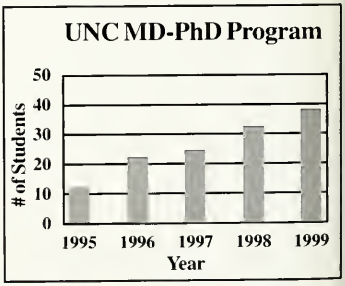
"UNC has now developed an excellent program with new, dynamic program directors, and a productive training faculty."

"A strong commitment from the Dean's Office and from the faculty that goes a long way toward assuring success for this program."

"Although the medical school has a goal to train practitioners for the State of North Carolina, the University also offers extensive research opportunities with an excellent, well-supported participating faculty, and the strong infrastructure that is needed to support this combined-degree program."

Credit for this revitalized (and now MSTP-supported) MD-PhD Program goes to three Deans with foresight (Drs. Simmons, Bondurant, and Houpt), to a dedicated Advisory Committee, to the many PhD thesis advisors, and last but not least to our own MD-PhD students. The students plan all of the activities and programs, select each of the seminar speakers, coordinate the recruiting weekends, and schedule the retreat. Indeed, without the enthusiasm and commitment of our students, the program would not be where it is today.

Finally, it is important to emphasize that although we now receive some support from the MSTP award, this funds only a small proportion of our MD-PhD students. The bulk of our students continue to be supported by institutional funds, including alumni scholarships and private endowments, and by other extramural awards. We therefore welcome your interest and participation in this program, which is vitally important to our School of Medicine.



Medical Alumni BULLETIN

School of Medicine, University of North Carolina at Chapel Hill

Medical Alumni Association Officers

President
Gordon B. LeGrand, MD '65
Raleigh

President-Elect
Paul E. Viser, MD '84
Clinton

Vice President
Thomas J. Koontz, MD '66
Winston-Salem

Secretary
Ralph L. Wall Jr., MD '78
Winston-Salem

Treasurer
William M. Herndon, Jr., MD '81
Charlotte

Editorial Staff

John W. Stokes
Vice President, Public Affairs & Marketing

Susan Vassar King
Managing Editor

Christopher C. Baker, MD, Julia Bryan, Crystal Carson, Dawn Gerakaris, Katherine Kopp, Ginger Travis, Steve Williams, Suzanne Wood
Contributing Writers

Dan Crawford (pgs. 18, 26)
Steve Exum (pg. 7)
Jay Mangum (pgs. 2, 4, 11, 14, 15)
Photographers

The *Medical Alumni Bulletin* is published four times annually by the UNC-Chapel Hill Medical Alumni Association, Chapel Hill, NC 27514. Postage is paid by the non-profit association through U.S. Postal Permit No. 24. Address correspondence to the editor, Office of Medical Center Public Affairs, School of Medicine, CB#7600, University of North Carolina, Chapel Hill, NC 27514.

Contents

Features

George F. Sheldon, MD: Getting from Here to There 4

Straight to the Marrow – The Fight Against Fanconi Anemia 6

Peregrinations of a Samurai Surgeon 10

Three Faculty Members Rise to Chairmanships 13

True Blue/Harper Plans to Carry On the Legacy 14

Alumni Profile: Saundra Maass-Robinson, MD '81 16

Match Day 1999 18

Supporting Tar Heel Medical Education 22

Gordan LeGrand Assumes MAA Presidency 24

Departments

Dean's Page ..... Inside Front Cover

News Briefs 2

Research Briefs 8

Faculty Notes 20

Development Notes 25

Alumni Notes 28

President's Letter ..... Inside Back Cover

CME/Alumni Calendar ..... Back Cover

On the Cover: Upon his retirement this spring, William E. Easterling Jr., MD '56, (left) handed the reins for alumni affairs to his colleague and friend, James "Bud" Harper, MD '60. See story, page 14. *Photo by Jay Mangum.*

News Briefs

Womack Society honors plastic surgeon

The founder of UNC's Division of Plastic Surgery, Erle E. Peacock Jr., MD, JD, was honored this spring at the Nathan A. Womack Society's annual meeting in Chapel Hill.

Peacock served as a member of the Department of Surgery faculty from 1956 to 1969, establishing the department's first Plastic Surgery division in 1959. After leaving Carolina he spent 13 more years in plastic surgery at other academic institutions, followed by 11 years in private practice. Then, in 1993, at the age of 66, Peacock received his JD from the UNC School of Law and became a member of Hollowell, Peacock & Meyer in Raleigh.

At the Womack event, Peacock, a 1979 UNC Distinguished Service Award Winner, was presented with a portrait painted by Amelia James of Atlanta. The portrait was unveiled by the current chief of plastic and reconstructive surgery, Gerald M. Sloan, MD. Other speakers honoring Peacock included former residents and associates A. Griswold Bevin Jr., MD, Leonard T. Furlow Jr., MD, Wyndell H. Merritt, MD, and Paul M. Weeks, MD.

The Womack Society was created in 1969 to honor former Department of Surgery chair Nathan Womack, MD. Its membership is comprised of former and current surgical faculty and housestaff.

Erle E. Peacock Jr., MD, JD, greets a well-wisher after the Womack Society presentation as his wife, Mary, admires his portrait, which now hangs in the Division of Plastic Surgery's Conference Room/Library.

UNC and former Kaiser physicians enter partnership discussions

UNC Health Care and Carolina Premier Medical Group, a group composed of 71 Triangle-area physicians and health care practitioners formerly known as the Carolina Permanente Medical Group, in August announced they have signed a letter of intent to explore a strategic partnership.

The Carolina Premier-UNC announcement in Raleigh came after Partners National Health Plans of North Carolina Inc., and the Kaiser Foundation Health Plan of North Carolina announced they have signed an agreement to transfer Kaiser's membership to Partners. Under the agreement, Carolina Premier physicians and associates will continue to provide care for Kaiser patients in the Triangle area.

Carolina Premier Executive Medical Director Bruce Norman said the physicians group has "... long-standing ties with UNC and its doctors. We have been referring patients to UNC for specialty and subspecialty care for more than a decade. We look forward to exploring opportunities for working more closely."

Carolina Premier is staffed by 48 physicians and 23 nurse practitioners and physician assistants. The group currently serves about 73,000 patients in the Triangle at medical offices in Raleigh, Cary and Durham.

Both organizations emphasized that care for patients currently being served by Kaiser Permanente would not be affected. "We expect any arrangement we negotiate will be transparent to our patients," Norman said. "We are committed to continuing the high-quality care our patients have come to expect. They will see their same doctors and we expect that most of our medical offices will remain at their same locations."

The due diligence process is expected to be concluded by the end of 1999.

Cardinal, Triangle hospitals agree to form new company

Cardinal Healthcare, one of Raleigh's leading physician practice groups, announced in March that it has agreed to form a new company with a consortium of Triangle health care providers led by UNC Health Care. The move enables Cardinal to end its management relationship with MedPartners, a national company based in Birmingham, Ala.

MedPartners announced late last year that it was divesting itself of the physician-practice side of its business. Since then, Cardinal had been evaluating management options that would allow the practice to continue its 30-year tradition of providing care to patients in Raleigh and surrounding areas. Cardinal physicians voted to accept the plan put forth by UNC Health Care, Rex Healthcare and WakeMed.

Jeffrey L. Houpt, MD, CEO of UNC Health Care, said he is pleased with the partnership. "The reputation of Cardinal physicians and staff for quality care is well known, and we take it as a high compliment that they have chosen UNC, Rex and Wake as partners."

Stereotactic Radiosurgery Program performs milestone procedure, adds new service

UNC's Stereotactic Radiosurgery Program, one of the longest-running programs of its kind in the state, is celebrating its past with a significant milestone and its future with a new service.

The Division of Neurosurgery and the Department of Radiation Oncology completed their 150th stereotactic radiosurgery using a linear accelerator this summer. The program started in December 1991. This milestone reflects the longevity of the program as well as the volume of cases that the UNC team has handled.

Now, UNC neurosurgeons and radiation oncologists anticipate the addition of the Gamma Knife to their program through a unique partnership with Wake Forest University Baptist Medical Center in Winston-Salem. The Gamma Knife, the only one in the state, will be housed at Wake Forest. UNC neurosurgeons and radiation oncologists will travel to Winston-Salem periodically to treat their patients.

"Now, we will be able to offer the full range of radiosurgical procedures," said Bradford Walters, MD, PhD, associate professor in the Division of Neurosurgery and co-director of the Stereotactic Radiosurgery Program.

The Gamma Knife service will be added to the UNC Hospitals' Stereotactic Radiosurgery Program in collaboration with Wake Forest University in late 1999.

UNC Health Care acquires Chatham County Hospice

The UNC Health Care System in March acquired Hospice of Chatham County, Inc., a community-supported not-for-profit hospice agency located in Pittsboro.

Renamed UNC Hospice, plans are underway for enlarging the offices in Pittsboro and expanding hospice services, both in Chatham and other counties. Judy Lipa, RN, executive director of Hospice of Chatham County, has continued to serve as director of UNC Hospice.

Established in 1984, the hospice service has grown to provide care to more than 1,000 Chatham County patients and their families. Its programs were traditionally supported by community fund raising, insurance reimbursements, including Medicare and Medicaid, and modest county appropriations.

UNC Health Care paid $253,000 for the hospice and its assets. Joel Hunnicutt of Siler City, president of the Hospice of Chatham County board, said sale proceeds would support a charitable foundation chartered to help support not-for-profit activities in Chatham County.

"UNC brings much needed resources to this important community program," Hunnicutt said. "The University and UNC Hospitals have a long history of providing and supporting health care in Chatham County. We're pleased with this arrangement and with UNC's continuing commitment to all health services in our communities."

AHEC provides Spanish-language resources

As the Spanish-speaking population in North Carolina grows, many health care providers are frustrated in their abilities to provide adequate services due to language and cultural barriers.

In response, the N.C. Area Health Education Centers program has instituted programs to assist health care professionals in providing competent, appropriate care for this population. AHEC centers across the state are offering training programs such as Basic Spanish for Health Care Providers, Interpreter Training, Cultural Literacy and Health Care Spanish Instructor Training.

The class offerings may be found on the web at members.aol.com/jackrube/hhcrindex.html. Also at this site is a membership list of the Carolina Association of Translators an Interpreters, featuring those who work in Spanish, and a partial list of agencies, services and individuals who translate and interpret Spanish.

Other helpful features include health information in Spanish and a list of Latino community resources and agencies that assist immigrants.

The website will be housed, developed and maintained by Area L AHEC. For a full description of the Spanish Language and Cultural Competency Initiative, go to www.med.unc.edu/ahec/spanpgm.htm.

UNC ranked one of "America's Best Hospitals"

For the fifth consecutive year, UNC was ranked among the nation's top medical facilities by *U.S. News & World Report* in its 10th annual guide to "America's Best Hospitals."

The Department of Obstetrics and Gynecology took top honors among UNC programs. It was ranked 12th in the nation. The report lists the top 50 hospitals in each of 12 specialty areas. UNC was ranked in 9 of 12 areas.

Other departments named in the top 50 programs in the nation include Respiratory Disorders; Hormonal Disorders; Geriatrics; Digestive Tract; Ear, Nose and Throat; Cancer; Neurology and Neurosurgery; and Rheumatology.

George F. Sheldon, MD: Getting from Here to There

by Katherine Kopp

After 38 years as a surgeon, George Sheldon, MD, has an observation on just about every issue facing doctors today. In a recent interview in his office filled with photos, awards and memorabilia, the conversation flowed freely from one subject to another. Sheldon moves quickly and cogently from a discussion of how medicine and medical students have changed over 30 years to the rise — and perhaps the fall — of managed care to the challenges facing physicians in the arena of medical ethics.

Chairman of the UNC School of Medicine's Department of Surgery for 16 years, current president of the American College of Surgeons (ACS), and chair-elect of the Association of American Medical Colleges (AAMC), Sheldon is a man who does more than merely hold office. He utilizes his role as a leader to create opportunities for debate and action, continually raising questions and advancing discussion of issues of critical importance to surgeons, academic physicians and private practitioners today.

As a department chairman at an academic institution and chair-elect of the AAMC, Sheldon is especially attuned to the challenges facing the UNC Health Care System. "Under particular pressure today are 'safety net' hospitals like this one," he says. "So much of what we do is tagged to Medicare. The balanced budget act as currently in place will have a tremendous impact on institutions like ours, though I do think it will get changed. [What's presently under discussion by] the bipartisan commission is adding prescription drug coverage and then changing the entitlement for graduate medical education. We have to be concerned about the impact of this on funding for residency training programs.

"All of these things are tied together," Sheldon explains. "So the trend is for medical schools to rely more and more heavily on the clinical income generated by their

George Sheldon, MD, chairs UNC's Department of Surgery and the American College of Surgeons. In December 2000, he will be installed as chair of the Association of American Medical Colleges.

faculty. Nationally, most medical schools bring in 30 to 40 percent of their income. Some institutions derive as much as half of their income from clinical receipts. And medical schools are unusual in this way. Law schools, for example, don't depend on the practice of faculty to generate income to support their school."

In addition to coping with the financial pressures faced by academic institutions, Sheldon is concerned with maintaining the sense of medicine as a higher calling — a profession, not merely a job or avocation. A two-year study at UNC, co-convened by Sheldon and former dean of the UNC School of Law Judith Wegner, JD, found five characteristics that are generally agreed upon as defining a profession. They are altruism, a requirement for special education or training and a high degree of knowledge, an ability and willingness to apply the knowledge to a greater societal good, autonomy, and the conformance and development of a body of ethics.

While he believes the medical profession is evolving, influenced by factors such as the increasing number of women in medicine and other demographic changes and the effects of managed care on medical decision-making, he still views physicians as an autonomous group of individuals. "Medicine used to be more of a cottage industry," says Sheldon. "Now, it's composed of larger groups. But the medical students and residents I see coming through today share many characteristics with practicing physicians of my generation."

He sees the current shift towards acceptance of alternative health care providers by both the public and by health insurers as a challenge for the next generation of physicians and surgeons. Sheldon points out, "Last year, more people saw an alternative provider than saw a primary care physician. By the year 2005, there will be more nonphysician clinicians than primary care doctors, and more chiropractors than pediatricians. This is a very big issue, but there's not much attention being paid to it."

An issue that does receive a lot of attention — providing basic health insurance coverage for all our citizens — is of paramount concern to Sheldon. In his installation address to the ACS last fall, he stated that "the fundamental issue is insuring universal access to a basic level of health care." Under his leadership earlier this year, the ACS joined a number of other medical organizations when it released a public statement supporting coverage that provides "meaningful access to high quality surgical and medical care for all Americans."

Sheldon realizes this goal won't be an easy one to accomplish, especially in an environment in which health care costs are on the rise once again. "For a number of years, we had double-digit increases in health care costs," he says. "That slowed down for a while, and managed care took the credit for that, probably rightly. Now, health care costs are rising more rapidly again; the cost of new technology is not going down."

Does Sheldon foresee a single-payer universal health plan in the near future? "I don't think so," he says, but he does believe action must be taken to ensure basic coverage for uninsured Americans. "Much of the debate around managed care issues centers around patients' rights to see their physician of choice," he says. "We tend to forget that many Americans — more than 50 million at the present time — are without any kind of health insurance at all. The realities are that [any new system of coverage] will have to be pluralistic," says Sheldon. "It's hard to know exactly what it will look like. The question now is how we get from here to there."

With the millennium at hand, it is the current status of the medical profession's body of ethics that perhaps concerns George Sheldon most. "The thorniest ethical issue facing physicians today is the right to die," he believes. "In the past, everyone has thought in terms of withdrawing or withholding treatment. It is quite a leap to go from gauging the proper treatment [of a dying patient] with the family to using state Medicare funds to pay for physician-assisted suicide," says Sheldon. "I think this is a very dangerous area."

He is cautionary in his approach to the end-of-life debate, reminding physicians of both the oath they take and their responsibility to adhere to the highest ethical standards. "One of the prime tenets of the old Hippocratic oath is against the use of poison," he says, referring to physician-assisted suicide. "I think that [medical ethical] norms do evolve, but they have to be at a level *above* the mean of society."

Sheldon is hopeful that the ACS and other organizations will play a significant role in helping establish ethical norms for modern medical questions, as well as addressing other issues affecting the practice of medicine today. "Younger doctors are not as likely to join the large umbrella organizations," he points out. "It's estimated that only 23 percent of U.S. physicians will be members of the AMA (American Medical Association) by 2005. Instead, we're seeing a pattern of more physicians joining specialty organizations like the ACS. And at least in surgery, we're seeing more private practitioners becoming involved in the issues."

As one who leads by example, Sheldon encourages all physicians to act and speak out to support, guide and benefit their profession. "There is a belief sometimes that it's hard to have much impact, but that just isn't true," he says. "You have a lot of opportunity to provide input; what can be difficult is that there's no single channel for doing it. And like most things, it never turns out exactly the way you want. Inevitably, you have to accept change and compromise." □

Katherine Kopp is a freelance writer in Chapel Hill.

One of a Kind

George Sheldon's penchant for leadership was evidenced early on, when he was elected student body president his sophomore year at the University of Kansas.

Since then, he has continued to amass honors and awards, including membership in the Institute of Medicine and the Royal College of Surgeons, Edinburgh. Sheldon is a sought-after expert in the field of academic medicine, as evidenced by his charter appointment to the Council on Graduate Medical Education and his service to the Accreditation Council for Graduate Medical Education. On several occasions he has testified before Congress, addressing topics such as health workforce issues and funding of graduate medical education.

But among his many achievements, perhaps the most unique is the fact that Sheldon is one of less than 20 surgeons in the past 100 years to be chair or president of all the major U.S. surgical organizations, including the American College of Surgeons, the American Board of Surgery, the American Surgical Association and the American Association for the Surgery of Trauma.

This year alone, he is simultaneously president of the ACS, president of the Society of Surgical Chairmen, and chair of the Council of Academic Societies, a component of the Association of American Medical Colleges.

When he assumes the role of AAMC chair next year, he will be the first surgeon in that position, which is usually held by a medical school dean.

Straight to the Marrow

by Julia Bryan

A quarter of a billion dollars. That's the price tag pharmaceutical companies pin on the bassinet of every new drug. For big drug companies with shareholders to please, it takes a lot to justify that kind of expense —like a projected annual return of $250 million. It's the law of supply and demand. It's capitalism.

But what if you've just found out that your 10-year-old daughter has a fatal disease, so unusual it's taken six months of doctors' visits and tests to diagnose, and so rare no drug company can afford to research a cure? What if you soon discover that two more of your children have also inherited that disease?

If you're David and Lynn Frohnmayer of Eugene, Oregon, you get to work. You create a community of other families with children similarly affected. You start a newsletter; you start a yearly retreat. And you contact scientists at universities and research institutes who don't have to answer to shareholders, who just might be able to help your children.

One of those universities is Carolina. One of those researchers is Christopher Walsh. This spring, Walsh, assistant professor of medicine, launched the clinical trial of a treatment he believes may cure Fanconi anemia (FA). The most common form of inherited bone marrow failure, FA affects between 2,000 to 3,000 people in the United States and Europe. Right now the only cure is a bone marrow transplant, and that option is available for just one-third of FA patients — those who are lucky enough to have compatible bone marrow donors. The remaining two-thirds of patients live on borrowed time, taking drugs to keep their blood counts high, trying to avoid the infections that trigger bone marrow failure. A child with FA has an average life span of 22 years.

Being the parent of a child with a rare disease is tough. Most family practitioners will have never heard of it, let alone diagnosed a similar patient. And if your doctor isn't familiar with a disorder, imagine having to educate yourself on the subject — plowing through medical abstracts, using a dictionary to translate nearly every word.

But despite its rarity, there's a surprising amount of information available about FA. Much of it can be found online. Families have set up web sites to keep friends updated on their children's progress, to encourage fund-raising support. The Fanconi Anemia Research Fund (FARF) has a site that includes a handbook for non-medical readers and two newsletters, the first covering medical research news, the second, family news.

Walsh credits the Frohnmayer family with creating this community spirit. David Frohnmayer is president of the University of Oregon, the father of five children — three with Fanconi anemia — and the founder of FARF. He has spent the last 15 years of his life campaigning to raise money and awareness for FA.

"We knew we needed to do something to help speed the research. So we started sponsoring scientific conferences, bringing together researchers to talk about their latest findings, their therapeutic efforts," Frohnmayer says. The first conference, in 1989, attracted 18 people. To find that group, Frohnmayer and his wife, Lynn, combed FA literature, looking for researchers with even a slight interest in the disease. This year is the 10th anniversary of that first conference, and Frohnmayer expects more than 100 scientists to show up.

Campaigns of this sort are crucial — one of the most frightening aspects of a rare disease is just how limited treatment options can be, nearly as rare as the disease. Since private companies can't afford to invest much time and money in an unusual disorder, research and treatment development is largely left to publicly funded researchers.

Besides funding yearly conferences, FARF also supplies grants to individual research projects. Frohnmayer says, "With our seed money, scientists have been able to get several million more in research funds from public institutes like the National Institute of Health."

But it's not the money that draws scientists to FA research. "Scientifically, it's very important," Frohnmayer says. "It deals with so many issues at the biological level — stem cells, DNA repair, birth defects, bone marrow failure."

Walsh agrees. "Bone marrow and stem cells are the bread and butter of hematology," he says. "FA is just intrinsically interesting for a hematologist."

Most anemias are characterized by a slowdown in red blood-cell production. But with FA, the production of every blood cell — red, white, and platelet — slows down. Without enough red blood cells to transport oxygen, white blood cells to fight infections, and platelets to clot hemorrhages, an FA patient becomes vulnerable to infection and internal bleeding. This condition is called "aplastic anemia," and it is a surefire sign of bone marrow failure.

Walsh started out working in a lab that studied aplastic anemia in one group and gene transfer experiments in another. "Putting the two concepts together wasn't difficult. Actually, it was a snap," Walsh says.

It took a moment to pair Fanconi anemia and gene transfer, but it has taken four years for Walsh to get that couple into a clinical trial. He spent the first few of those years at the NIH before moving to Carolina in 1996, where he has a small lab on the seventh floor of the Thurston Bowles Building — the gene transfer wing.

FA is an ideal candidate for gene transfer because, while there are eight forms of FA, each patient has only one malfunctioning gene. Three of those variations, FA-A, FA-C and FA-G, have been isolated. While other research labs are working on isolating the remaining five, Walsh has focused his research efforts on FA-A, the gene that affects more than 70 percent of FA patients.

In April, Walsh and 10 FA patients started their trial — testing the therapeutic effects of transplanting a corrected gene back into patients' bone marrow. He treats both adults and children, and it doesn't matter how poorly or how well they are doing. Walsh says, "As long as they have FA-A, they can participate."

The key to this trial is its gentleness. Traditional bone marrow transplants, currently the only way to "cure" FA, are life threatening. A patient undergoes a course of drugs and radiation to kill every bit of marrow, then the transplant and another course of drugs to prevent infection. Recovery can take more than a year, if a patient survives. Because people with FA are extremely sensitive to radiation and often develop tumors and leukemia as a result of treatment, transplants are often viewed as last-resort therapy. This transplant protocol is different. Patients skip the radiation and drugs, giving their immune systems a huge break. All they have to donate is a bit of bone marrow, leaving the tricky part up to Walsh and his team.

To make the fix, the research team plans

to track down a few stem cells from each patient's marrow by extracting blood and then spinning it through a centrifuge. To those stem cells, they'll introduce a retrovirus — carefully engineered to transport the repaired genetic material back into the cells. Once the vector inserts itself and its payload into the stem cells, it should swap out the old gene with the new — establishing the correctly functioning gene into the stem cells. These cells will leave their lab life and get transplanted back into each patient. The next step — wait and see.

Theoretically, stem cells are perfect cells to receive gene therapy, because, once repaired, they have the ability to create legions of each blood cell type free of the faulty gene. And although it's impossible to repair every stem cell, Walsh has found that corrected stem cells outperform defective stem cells. By using certain drugs that the faulty FA genes are "exquisitely sensitive to," the researchers can even accelerate the decline in the number of unrepaired stem cells.

Those drugs were the last holdup before the trial's start. Walsh and Carolina's Office of Technology Development (OTD) spent nine months negotiating with three pharmaceutical companies on the West Coast to persuade each to give Walsh permission to use its drug. In late March, the companies gave the go-ahead.

Companies are typically delighted to grant that permission, but at a price — money, or exclusive licensing. Because Walsh needed to use drugs from all three companies, but couldn't afford the costs, he and OTD had to spend a lot of time on the phone to California. That's where Frohnmayer came in again. He played a part in persuading the companies.

He says, "I'm speaking from a bully pulpit — speaking as a parent and as an officer of FARF. I remind the licensing guys that lives are hanging in the balance."

Meanwhile, the FA community eagerly waits for the trial to begin. The Frohnmayers are holding out hope that someday soon their youngest daughter Amy — their only surviving child with FA — won't have to worry about her white blood cell counts or her platelet levels, that she'll be able to focus on being a teenager, growing up. □

[This article first appeared in the Spring 1999 issue of Endeavors *magazine, published by the UNC-CH Office of Graduate Studies and Research.]*

Christopher Walsh, MD, PhD, assistant professor in the Division of Hematology-Oncology, and Angelique Camp, research assistant in the Vector Core Laboratory, examine cells that will soon carry corrected genes into new territory — human bone marrow.

Research Briefs

Breast-feeding hormone lowers nursing moms' blood pressure

A new UNC study links increased levels of the hormone oxytocin during stress to lower blood pressure among mothers of infants.

The findings help explain why many breast-feeding mothers report feeling mellow and relaxed after nursing.

"Oxytocin is most commonly known for its role in the letdown of milk during breast-feeding, but also has effects on brain areas involved in emotion and stress responses," says Kathleen Light, PhD, professor of psychiatry and the study's senior investigator.

Study results demonstrated that mothers with a greater rise in oxytocin levels in the blood in response to stress showed lower blood pressure before and after giving a speech about recent life problems.

Read more at www.unc.edu/news/newsserv/research/breast.htm.

Study reveals cancer role of mutated gene

Carolina scientists have discovered the molecular role in cancer development of a mutated tumor suppressor gene known as ARF.

The new findings help clarify why ARF is the second most frequently mutated gene in human cancers, appearing in 40 percent of malignancies, second only to the mutated tumor suppressor gene, p53.

According to the study, ARF normally prevents cellular transformation by preventing degradation of the p53 protein. It allows p53 to accumulate in the cell's nucleus where it functions to stop tumor cell growth.

"We previously reported our discovery that the ARF protein functions to suppress tumor growth by biochemically binding to another protein called MDM2," says Yue Xiong, PhD, assistant professor of biochemistry and biophysics. "Under normal conditions, MDM2 binds with p53 and takes it to the cellular cytoplasm for degradation. ARF will stop this process, accumulating p53 in the nucleus."

Read more at http://www.unc.edu/news/newsserv/research/mutates052099.htm.

Poor health in pregnancy tied to history of abuse

Women with a history of sexual and physical abuse are more likely to have poor health during pregnancy and after childbirth, according to a UNC study.

The study is among the first to examine how a history of abuse may affect postpartum depression and other indicators of health status after pregnancy, says Jane Leserman, PhD, research associate professor of psychiatry.

"The association of poor health with sexual and physical abuse history has been established among patient populations with chronic pain and in primary care, including women with gastrointestinal disorders," Leserman says. "I was interested in seeing whether abuse history would be an important predictor of health during a vulnerable time in women's lives."

Read more at www.unc.edu/news/newsserv/research/abuse.htm.

Genes found that label cell proteins for disposal

UNC scientists have discovered three genes crucial to the survival of cells. The genes select cellular proteins for the disposal and eventual recycling of their components.

Because some of these proteins have been implicated in cancer and other human illnesses, failure or disruption of this cellular mechanism may promote the disease process, according to Yue Xiong, PhD, assistant professor of biochemistry and biophysics.

"Balance is the key word. How the cell cycle of growth and division maintains balance is what we're studying," Xiong says. "It may be that human diseases are somehow linked to a degradation breakdown, one that leads to imbalance of proteins."

Read more at www.unc.edu/news/newsserv/research/xiong042899.htm.

Stress speeds progression to AIDS

Researchers at UNC have shown that men infected with HIV will more rapidly develop AIDS as stressful events accumulate in their lives or if their social supports are weak.

The new findings carry important implications both for understanding the progression of AIDS and possible treatments for HIV, according to Jane Leserman, PhD, research associate professor of psychiatry.

"This is perhaps among the most compelling evidence to date linking psychosocial variables with HIV progression," she says. "Along with considering the more biological aspects of AIDS, we should consider the relevance of psychological aspects of this illness."

Read more at www.unc.edu/news/newsserv/research/aids052499.htm.

Family support a factor in cardiovascular responses to stress

Married people who receive a high level of social support from their family — especially from their spouse — show better heart and blood pressure responses to stress than couples whose family support level is low, according to a UNC study.

The findings are among the first to demonstrate that the degree of perceived family support can make a difference in people's cardiovascular responses to stressful situations and may help lower the risk of heart attack and stroke. The research also highlights the value of spousal support when seeking ways to reduce cardiovascular risks.

"We feel that support from the spouse is a very important factor in terms of lowering cardiovascular risk," says Kathleen C. Light, PhD, professor of psychiatry. "It may be something that couples need to be aware of and to work on, especially if there's high blood pressure or heart disease present."

Read more at http://www.unc.edu/news/newsserv/research/spouse05269.htm.

Choline deficiency harms memory center in mammals' brains

Researchers at UNC have reported that diet during a critical period of pregnancy can change the birth and death of cells in the developing memory centers of babies' brains.

Dietary deficiency of choline, an essential nutrient, significantly changed the structure of those memory centers — the hippocampus and septum — by reducing cell division, changing cell migration, and by increasing the number of cells that die prematurely. Although the research took place on rats, something similar could happen in human babies, researchers say.

"For the first time we have shown that the very structure of the brain is influenced by what the mothers eat during pregnancy and that this specific nutrient choline appears to be critical," said Nutrition Chair Steven Zeisel, MD, PhD.

Read more at www.unc.edu/news/newsserv/research/zeisel.htm.

Study shows anxiety predicts greatest risk for persistent depression

Symptoms of major depression are most likely to persist in people who also have an anxiety disorder, according to a study headed by a UNC psychiatrist.

The new findings can help primary care doctors target patients needing more aggressive treatment for depression, said Bradley Gaynes, MD, MPH, assistant professor of psychiatry and director of the Psychiatric Consultation Service.

Gaynes pointed out that primary care doctors — typically family physicians and internists — provide nearly half of the outpatient care for people in the United States diagnosed with depression.

"And they provide at least as many antidepressant prescriptions annually compared to psychiatrists," he said. "Major depression accounts for 5 percent to 13 percent of the primary care population, making it more common than high blood pressure."

Read more at www.unc.edu/news/newsserv/research/depresed061499.htm.

Among heart failure patients, women survive twice as long as men

For still unknown reasons, women with advanced congestive heart failure survive twice as long as men with the same life-threatening condition, according to a UNC study. The increased life expectancy among women cannot be attributed to differences between the sexes in medical treatment, the research shows.

Congestive heart failure, in which the weakened heart cannot pump enough blood to meet the body's oxygen needs, is the only kind of cardiovascular disease increasing steadily in the U.S. population. It affects an estimated 4.6 million Americans.

"Our analysis suggests that the trend for increased survival is strongest among a subset of patients — those with congestive heart failure that is not due to ischemia, or lack of blood supply to the heart," said study author Kirkwood F. Adams Jr., MD, associate professor of medicine and radiology and director of UNC's Heart Failure Program.

Read more at www.unc.edu/news/newsserv/research/heart.htm.

Discovery: chromosomes found to end in big loops

Scientists at UNC's Lineberger Comprehensive Cancer Center and Rockefeller University appear to have solved an important and long-standing mystery in cell biology. The puzzle is why cells' internal repair machinery doesn't mistake the ends of chromosomes for broken DNA and either "fix" or destroy them.

Working together, the researchers have discovered that mammals' chromosomes end in loops. Under intense magnification, those chromosome ends, or telomeres, look something like lassos.

"We think this work is highly important because it should provide a whole new way of thinking about basic molecular mechanisms related to cancer and to control of aging in cells," said UNC's Jack Griffith, PhD, professor of microbiology and cell biology.

Read more at www.unc.edu/news/newsserv/research/csomes051399.htm.

Cancer drug cisplatin inhibits Taxol therapy for ovary tumors

A potent compound known as cisplatin — usually combined with the drug paclitaxel, or Taxol, for treating women with ovarian cancer — prevents paclitaxel from killing cancer cells in some situations, according to a new study.

The UNC study suggests that second-line therapy for patients with advanced ovarian cancer may need to be changed, researchers say. Their results indicate paclitaxel alone likely would work better to increase survival among patients.

"This is important information, especially for clinicians treating ovarian cancer patients," said Patricia Judson, MD, clinical instructor in gynecologic oncology. "About 24,000 new cases occur in this country every year, and they are often fatal, with ovarian cancer having the highest death rate of any gynecologic cancer."

Read more at www.unc.edu/news/newsserv/research/judson051799.htm.

Study points to possible gene therapy cure for hemophilia

New results from gene therapy studies at UNC may lead to an effective long-term treatment, if not a cure, for hemophilia A, the most common form of this inherited blood disease.

Studies in mice involved attaching a cloned gene responsible for human clotting factor VIII — a protein severely deficient in people with hemophilia A — to a genetically engineered virus called AAV. A single injection of the virus led to a gradual increase in blood levels of factor VIII, which have remained stable for 11 months.

"This is the first result in animals demonstrating the efficacy of this approach to hemophilia A," said Christopher E. Walsh, MD, PhD, assistant professor of medicine and clinical director of the Gene Therapy Center. "The goal is one dose — that essentially one dose delivered by gene therapy would be all that's needed to be physiologically cured of future bleeds."

Read more at www.unc.edu/news/newsserv/research/hemophil.htm.

Peregrinations of a Samurai Surgeon

by Christopher C. Baker, MD

Editor's Note: The following is excerpted from the 1999 AOA lecture delivered by Dr. Baker, professor of surgery and head of trauma at UNC Hospitals.

My goal today is to entertain and perhaps enlighten you with my "Ten Thoughts for a Life in Medicine." At the beginning, my list is separated into personal and professional categories. Later on these tend to meld together, as has been my experience in life.

Personal — Floss. This comes under the rubric of doing things to take care of yourself that may not be easy to do. I personally hate to floss, but have had the necessity of it beaten into me by various dentists over the years. Spending a little bit of time on a daily basis prevents the heartache of gingivitis. Other habits, such as eating a balanced diet, are easy to speak of but not so easy to emulate. There is nothing like having an illness to give you a wake-up call in this regard. Obviously, avoiding drugs, alcohol and cigarettes is critical. Addiction to these substances is a definite risk for physicians, and something that one must avoid.

Professional — Develop good work habits. Diligence in checking details and being compulsive about follow-up of patients is critical. There is nothing more distressing to a patient than to have a test and not hear from their doctor about the results. Early on one should develop habits of good documentation, such as writing down the number and strength of drugs that are prescribed. Perhaps one of the most important things to develop is the habit of giving feedback to referring physicians, both through letters and phone calls. Avoid the medical ethnocentricity that comes from being affiliated with a tertiary medical center.

Personal — Pump up. This doesn't necessarily mean pumping iron, but means that you should incorporate physical activity into a standard routine. Nothing is better for your body and more effective at reducing stress than regular physical activity. This can vary from relaxing exercises, such as Tai Chi or yoga, to running, aerobics or any number of energetic sports. I have seen a number of students who have been actively involved in athletics, even at a fairly high level, only to leave them behind when they get into medical school or residency. Ironically, this is the time when stress can become the greatest and when it is most important to maintain some form of activity that allows you to reduce stress.

Professional — Strain your brain. Medicine is a contact sport requiring its combatants to become lifelong learners. Here at UNC the faculty make a strong effort to promulgate this behavior. One must stay current with the literature and be open to new ideas. The recent emphasis on evidence-based medicine is an excellent example of this type of behavior. As one progresses in medicine, it becomes very tempting to depend on anecdotes and aphorisms. Having passed 50, I can tell you that this temptation is all too dangerous and must be avoided.

Personal — Don't give unrequested advice. Giving unrequested advice usually gets you in trouble. With my lovely wife, Peg, I have been fortunate enough to help raise our two children, who are now on the verge of adulthood. It has been a joy to watch them develop. I remember with particular fondness one occasion when Peg was trying to give me advice about something and our 6-year-old daughter, Katie, chimed in, "Mom, you are not the boss of Dad." And as an afterthought she added, "You're not the boss of me, either." Giving advice about behavior patterns, especially with loved ones, sometimes gets confused as an attack on their personality traits. This can often lead to negative interpretations. I would encourage you to be careful in this area as you develop relationships over the years.

Professional — Don't take care of family or friends. This advice comes from my father, also a general surgeon. Since he took out my appendix when I was 5 and sewed me up on several other occasions, obviously he didn't heed his advice entirely. His excuse was that there wasn't anyone else qualified to take care of me at the time in the small town of Laconia, New Hampshire. His point was that you tend to lose your sense of objectivity when taking care of people with whom you have a pre-existing relationship. My best example of this comes from my time at Yale, when I was requested to take care of my wife's aunt, who lived in the area. I tried to refer her to another surgeon, but he was out of town. Since the patient appeared to have a simple case of acute cholecystitis, I finally allowed myself to be cajoled into operating on her. Unfortunately, she didn't have cholecystitis, she had gallbladder cancer that had spread to the right lobe of her liver. I did a non-anatomic resection and sent her for chemotherapy, but she developed metastases in the right lobe of her liver nine months later. After much gnashing of teeth and further attempts to refer her to another physician, I once again found myself in the position of operating on her. I did a trisegmentectomy, leaving only the left lateral segment of the liver, which was a rather heroic operation. The resection left her free of disease, and she did well for five days. Unfortunately, she developed a fatal upper gastrointestinal hemorrhage on the sixth post-operative day from a duodenal ulcer that I had missed on the preoperative history. Losing this family friend and going to her funeral, where I was well known to many of the grieving relatives, was one of the most difficult things I have ever done. It brought home the wisdom of my father's advice, and I have tried not to ignore this advice subsequently.

Personal — Preserve family history. There is a stark contrast between the nuclear family I grew up in and my wife's large extended family. My mother had one brother and my father was an only child. All of my grandparents were dead by the time I was two and I met my uncle only once. This is probably related to the fact that my mother once wrote him a letter telling him that he really should break off with his fiancée, since she would tie him down to a small town in Ohio to live out a life of quiet desperation. Unfortunately, the fiancée smelled a rat, opened the letter, and that was the end of close contact between my mother and her brother. As a result, I grew up in a nuclear family with my one brother. It was not until our parents died that we unearthed some of the old family photographs and history. I did not know the significance of my father's wartime efforts (which he rarely mentioned) until I was looking through his papers after his death. I found that he had been shot through the knee during the assault on Saipan, but had dragged himself around and treated the other soldiers, for which he received the Silver Star, an award just below the Congressional Medal of

Dr. Baker (right) and his taekwondo instructor, Jewell Allen.

Honor. Perhaps I was most proud of the fact that my father hated war so much that he didn't talk about this singular honor.

Professional — Treasure and promote mentorship. Medicine in general, and surgery in particular, still maintains a style of professional apprenticeship in its learning model. One of my favorite memories of mentorship was when I spent two months in England right after my marriage, working with Professor Maurice Slapack in Cambridge. I learned an enormous amount from him, and he and his wife were very good to Peg and me as young newlyweds. Dr. Slapack was independently wealthy, and I didn't know what to give him as a thank you gift. Peg and I had made a brass rubbing in Oxford and I gave this to him as a good-bye gift. I remember saying, "I really don't know how to thank you, but I hope this will give you some idea of how much you have meant to me." His reply is still emblazoned in my heart and mind. "Chip," he said, "no need to thank me. When I was your age, I had a mentor who was very good to me and I said that I didn't know how to thank him. He said, 'No need for thanks, just do the same for someone else down the road.'" This tradition of mentorship in medicine is a valued one that is being threatened by modern economic pressures. I challenge you as the next generation of physicians to cling steadfastly to this critical aspect of medical education.

Learn to tell time. The hospital will demand as much time as you are willing to give it, which will detract from your personal life and your ability to spend time with those you love. Early on, there is something very seductive about being in the hospital, but I assure you that no one is irreplaceable and you must develop techniques for getting out of the hospital in a timely fashion. Learn to prioritize tasks, and leave the less important ones for colleagues on call, or for another day. Develop organizational skills so you can leave the hospital to participate in family or personal activities.

Be open and flexible. This is critical for both personal and professional development. It is important to avoid ossification, both in the joints and in the brain. As adults we tend to develop fairly fixed ways of thinking about things. One of the wonders of children is that they tend to help us break out of these habits. One of my fondest memories of my son, Jonathan, occurred when he was about 2 1/2. We were walking near our house in San

Francisco, and I was looking off into the distance to East Oakland and the mountains beyond there. I felt Jonathan stop and tug at my hand as he said, "bee." Eventually I got down to his level and saw a bumblebee collecting pollen from a flower. We probably sat and watched for 5 or 10 minutes; it was a tremendous lesson on how adults tend to lose a sense of wonderment at the beauty of nature. Children are great at putting things in perspective. I recommend them highly. It is equally important in medicine to be open to new concepts and ideas and to some of the alternative therapies that may not have a clear scientific explanation. For instance, although I cannot necessarily explain the Chinese concept of "chi," or energy, I firmly believe in its importance in the healing process.

Develop and maintain a belief system. I am not advocating a specific belief system, but I do think that some structure is required in this regard. From the personal standpoint, it is critical in developing a cohesive relationship with one's partner and in instilling important character values in one's children. Regardless of one's belief structure, some of the key aspects of character are critical to success as a physician: trustworthiness, responsibility, caring, fairness, citizenship and respect. In my taekwondo dojo we start each training session by promising to train with loyalty to our instructor and respect for our juniors and our seniors. In the hierarchical structure of medicine it is critical to maintain this type of bi-directional respect. Otherwise the learning process becomes a one-way street and deteriorates into pedanticism.

Respect the dignity of death. Death is inevitable. One of the failures of modern medicine is that it has tended to view death as the enemy. We need to recognize the difference between prolonging life and prolonging death. As physicians, we need to ensure death with dignity for patients and their families. My own personal story in this vein involves my father, who died at age 78 of pulmonary and cardiac insufficiency. We had both faced death as professionals, and I think this made me better prepared to face it with him. On my last visit to see him I asked, "Is there anything I can do for you?" He calmly replied, 'How about a new set of lungs?' Even as he faced death, he was able to maintain his sense of irony and humor. These are critical tools in dealing with life, especially in its final days. One must recognize that different cultures have different views of death, which we must respect. Having the aforementioned belief system will definitely help in this regard.

Trust your instincts. Instinct is that sense of concern that makes you go back into the hospital to check on a patient who is worrying you as you are on the way out the door. Instinct makes you stay up late when your kids haven't gotten home, or causes you to change your mind about doing something. Perhaps my most powerful personal story regarding instinct involves my mother. In 1985, my parents were getting ready to move from Massachusetts to their retirement home in New Hampshire. I was at a meeting in Florida and decided to change my plans, fly into Boston, and visit my parents a week earlier than planned. My brother independently changed his plans as well, and we were able to spend some quality time with our parents without spouses or children, which was the first time that had occurred in several years. Three days later my mother was killed in a car crash. I thank the Lord and my instincts for making me change my plans so I could see my mother once more before she was taken from me. Don't wait to tell the people who are close to you that you love them, or wait for special occasions to go see them. The fact that families and friends get together at funerals always seems a bit unfortunate to me. We should strive to celebrate people's lives before they die.

You can do it. This aphorism comes from Bela Karoli, the famous Rumanian gymnastics coach instrumental in the success of Nadia Comaneci, Mary Lou Retton and Keri Struggs. He always inspired them with his deep voice saying, "You can do it." My personal experience in this regard occurred in my taekwondo dojo, where I was attending a testing session as an observer, not expecting to participate. My instructor, Mr. Jewell Allen, asked me to liven up the session by sparring with one of the younger athletes, who had been the world champion the year before. At that point I thought I was off the hook, but at the very end of the session Mr. Allen said, "Dr. Baker will now break four boards with a side kick." I had never broken more than two boards before, and hadn't even attempted four boards. Nonetheless, I did not want to let my instructor down or embarrass myself. With a little bit of concentration and with the encouragement of my colleagues, I was able to break four boards without a problem. Afterwards, I said to my instructor, "You kind of threw me for a loop when you said that I was going to break four boards with a side kick." He looked at me with a wry smile and said, "I've been watching your side kick. I thought you were ready." My point here is that you will often be expected to move ahead of where you think you are able to go. This is one of the ways that we progress in medicine, and you just need to remember one thing — you're from UNC and you can do it! □

Three Faculty Members Rise to Chairmanships

by Susan Vassar King

Three long-time School of Medicine faculty members have been named department chairs by the UNC-CH board of trustees. David C. Lee, PhD, Biochemistry and Biophysics; J. Charles Jennette, MD, Pathology and Laboratory Medicine; and Desmond K. Runyan, MD, DrPH, Social Medicine.

• Lee came to Carolina in 1985 as an assistant professor in the Department of Microbiology and Immunology and a member of the Lineberger Comprehensive Cancer Center's Cancer Cell Biology Program. He rose to associate professor in 1991 and that same year was named program leader of the Cancer Cell Biology Program, a position he still holds. Lee rose to professor in 1995, and from 1996-98 served as director of the Cancer Cell Biology Predoctoral Training Program. He currently serves as director of the Nucleic Acids Core Facility, co-director of the Histopathology Core Facility and a member of the School of Medicine's Research Advisory Council.

Lee

After graduating with departmental honors from Stanford University with a BS in biology, Lee attended the University of Washington, earning a PhD in biochemistry. He was a postdoctoral fellow in the Department of Biological Chemistry at Washington University in St. Louis, and in the Department of Pharmacology at the University of Washington.

Lee has won many awards during his tenure at UNC, including the American Cancer Society Junior Faculty Research Award (1986-89), the Jefferson-Pilot Award for Excellence in Academic Medicine (1989), the Exploratory Research Program Award from Procter and Gamble (1994-97) and the Phillip and Ruth Hettleman Award for Scholarly Achievement (1994).

Lee is a member of the American Association for the Advancement of Science and the American Association for Cancer Research, and serves a member of the National Institutes of Health Pathology B Study Section.

• Jennette earned both his undergraduate (zoology '69) and graduate (MD '73) degrees from UNC. After completing a residency in anatomic and clinical pathology in Chapel Hill, he was a research fellow in the Department of Immunopathology at Scripps Clinic and Research Foundation in La Jolla, Calif. He returned to UNC in 1977 for a fellowship in the Department of Pathology.

Jennette

A member of the faculty since 1978, Jennette teaches medical students and other health-affairs graduate and professional students about inflammation and repair, immunopathology and nephropathology.

His research focuses on understanding the causes and improving the diagnosis and treatment of kidney diseases, especially those caused by inflammatory and immunologic mechanisms. Along with Ronald J. Falk of the Department of Medicine, he has pioneered research on autoimmune vasculitis.

Jennette is director of the Nephropathology Laboratory, which provides diagnostic services for patients with kidney disease, and is co-director of the Glomerular Disease Collaborative Network, which coordinates kidney-disease research throughout the United States.

A recipient of a Jefferson Pilot Fellowship in Academic Medicine, Jennette also has received awards from the Renal Pathology Society and the United States and Canadian Academy of Pathology.

• Runyan has held appointments in various departments in the schools of Medicine and Public Health since he joined the faculty in 1981.

After completing the Robert Wood Johnson Clinical Scholars Program at UNC, he was named assistant professor in the departments of Social Medicine and Administrative Medicine and Pediatrics. In 1983, after earning a DrPH in maternal and child health from Carolina's School of Public Health, he added clinical assistant professor in the Department of Epidemiology to his credentials. He continues to hold professorships in Social Medicine, Pediatrics and Epidemiology today, in addition to his chairmanship.

Runyan graduated from Macalester College in St. Paul, Minn., with a degree in International Relations. He then attended the University of Minnesota, where he earned an MPH in 1975 and an MD in 1976, and completed a residency in pediatrics in 1979.

Runyan has been listed in the southeastern and national editions of "Best Doctors in America" in 1997 and 1998, respectively. He also is a member of Delta Omega Public Health Honorary Society from both Carolina and his alma mater. Last year, Runyan received the "Hammer Award" from Vice President Al Gore for his work with others to develop data and organize a series of conferences on the role of fathers in families and the impact of fathers on child development. The award represents the work of individuals who "build a government that works better and cost less."

Runyan

Among his many professional associations, he is a fellow of the American Academy of Pediatrics and the American College of Preventive Medicine. He has been elected to the Society for Pediatric Research and the American Pediatric Society, and is co-founder of the Ray E. Helfer Pediatric Honor Society. □

True Blue

by Suzanne M. Wood

He went to medical school here. He did his internship and residency at UNC Hospitals. He was also a chief resident and, over the years, served as professor, attending physician, assistant dean, dean, associate dean and even interim dean. You could say for almost all of the years between 1953 and 1999, Bill Easterling, MD '56, was as big a supporter of the School of Medicine as they come, and as strong an influence as any one person could be. So following his retirement this past spring, it's not surprising that the faculty, students, staff and even the corridors of MacNider Hall are feeling a little bereft.

"He is now being missed," says Stuart Bondurant, MD, dean emeritus and professor of medicine, who has worked with Easterling for more than 20 years. "He made huge contributions to this place."

Those contributions include pioneering the subspecialty of reproductive endocrinology at UNC; helping to organize the Carolina Consultation Center and the Ambulatory Care Center; steering the course of continuing medical education both here and on the national level; and teaching scores of students and residents, delivering hundreds of babies and treating thousands of patients. Most recently, Easterling devoted his time to molding the Alumni Association into the powerful organization it is today in his capacity as associate dean for continuing medical education and alumni affairs, a joint role he held for 11 years.

Looking back over his long career, Easterling, described by his longtime administrative assistant, Stephanie Stadler, as "a Southern gentleman, statesman and consummate teacher," is particularly proud of the work he did to help strengthen the alumni association.

"When I became associate dean for alumni affairs in 1988, alumni were very supportive but not very involved," he notes. "In the last 10 years, we've worked to create a strong alumni presence."

For instance, participation in the spring and fall alumni weekends increased tremendously during Easterling's tenure. He and his staff also focused on enhancing the CME component of the weekends. Easterling also recognized the need to have a fundraising professional on board to help boost alumni support and involvement, so in September 1989 he led in the recruitment of the school's first alumni development officer, Jane McNeer. Over the last decade, Easterling, McNeer, their staff and dedicated volunteers have helped grow the Medical Alumni Loyalty Fund to new heights. According to McNeer, now assistant dean and vice president of the Medical Foundation, alumni participation in the Loyalty Fund has grown significantly from 9 percent to 38 percent, and the level of financial support has grown from $56,000 to $645,000. "Annually, we have over 400 volunteers to help raise these funds."

Former associate dean for Alumni Affairs William E. Easterling Jr., MD '56, has more time to indulge in his favorite hobby since his spring retirement.

Although he's now officially retired — "I am unemployed, and it's a wonderful feeling," he says with a chuckle — Easterling has no plans to sever his long ties with the school. As an active alumnus, he will help McNeer and the new associate dean for alumni affairs, James "Bud" Harper, MD '60, take the Loyalty Fund into the new millennium as a volunteer fundraiser.

"It will be interesting to be on that side of the table," he says. "All these years I've been enlisting others to be volunteers."

With more time on his hands, Easterling will also share his fundraising skills with his church in Chapel Hill, which is in the midst of a capital campaign. And when he's not spending time with Ellyn, his wife of 47 years, his five grown sons and eleven grandchildren, he serves on the board of an Episcopal retirement community in Southern Pines, tinkers in his woodworking shop and tries to resurrect his golf game, which had been neglected during all those years of 60-hour workweeks.

It may have been golf's loss, but it was the medical school's gain. "In terms of dedication to a job, he probably has few peers," says Harper, his friend of 41 years and successor in the alumni affairs role. "He is very responsible for jobs that are given to him. His response to that responsibility is well-known."

Bondurant, who first noticed Easterling's administrative talents when he was dean and Easterling was named associate dean for clinical affairs in 1981, recalls many a 7:30 a.m. meeting that Easterling attended, especially in connection with the planning and construction of the Ambulatory Care facility. "He is a very low-key, non-aggressive but persistent person who rarely rubs people the wrong way and is therefore able to forge coalitions and persuade people to work together who might not otherwise be able to," says Bondurant. "He can build a bridge between people who can't find consensus. Since many of his administrative jobs entailed convening and chairing meetings, those characteristics served him in good stead."

Easterling brought those same skills to the national arena in several important areas, including as a leader in making continuing education more comprehensive, focused and relevant, and also in the arena of medical faculty practice plans, whose revenue directly supports medical education. "As a consequence of this national experience, he became more effective at organizing our own efforts," says Bondurant.

Easterling first decided to become a doctor as a boy growing up in Raleigh because he admired the physician who treated him. After many years of practicing as a physician the challenge once he became an administrator was juggling the triumvirate of administration, teaching and clinical practice.

"Administration is a hungry monster," he says. "I really had to cordon off part of my life as I continued to practice and teach third-year medical students."

Of all the honors he's received, the one that touches him the most has little to do with administration. When he was chief resident of obstetrics and gynecology at UNC Hospitals in 1961 and counted teaching medical students among his responsibilities, the senior class presented him with the Henry C. Fordham Award, a coveted honor given to the house officer who has contributed the most to medical students. Its inscription reads, "In recognition of patience, humility and devotion to medicine."

Harper Plans to Carry On the Legacy

Not long after James "Bud" Harper, MD '60, cut back his clinical responsibilities in UNC's Division of Cardiology and EKG labs, he learned that Dean Jeffrey Houpt wanted to see him. Even doctors aren't immune from the trepidation that often accompanies this sort of meeting with the boss, so Harper called the dean's assistant to see if she knew what was up. She didn't, and Harper's curiosity mounted.

"I had reduced my responsibilities so much, I thought I was going to be fired," he recalls with a laugh. Instead, the dean asked Harper if he'd step in as associate dean for alumni affairs following Bill Easterling's announcement that he was retiring. "I guess one of the qualifications for the position is that the person had to have been associated with the university for a long enough time," he says. "And I've had some association with the university for 32 years."

Although Easterling had responsibilities for both alumni affairs and continuing medical education, the position was recently restructured so that continuing medical education is now under the executive associate dean for medical education. So Harper, who joined the school's administrative team July 1, will have responsibility for only alumni affairs.

"I'm glad that he (Easterling) had to do both things and I only have to do one job," Harper jokes. The two have been friends since 1958, when Easterling delivered the Harpers' first child.

Since coming on board, Harper has been immersing himself in alumni affairs, spending time talking with faculty and staff — in addition to med school graduates — to gather information on what's important to alumni.

James R. Harper, MD '60, stepped into the alumni leadership role this summer.

"They have to be kept interested," he says. "Without alumni support, the institution would not be very viable."

Harper plans to maintain that involvement through receptions, meetings, publications and the Loyalty Fund. "My goal is to carry on the work that (former associate deans) Wood and Easterling have done, and modify it as appropriate."

He and his staff will strive to achieve the goal set a few years ago of 50 percent participation in the Loyalty Fund.

Harper's actual ties to the school go back more than 32 years — he also received his undergraduate degree from UNC-Chapel Hill and did an internal medicine residency at UNC Hospitals, one of his four postdoctoral training appointments. But in a way that's the Harper family business — his father, James Henry Harper, MD, graduated from the two-year School of Medicine in 1903 and his son, James R. Harper Jr., MD, is a member of the Class of 1984.

"Since I know many of the alumni, to me it's kind of a busman's holiday to go out and see old friends and remind them of the responsibility we have to this institution," he says. "This appointment is just my way to make a contribution to the school as my professional career as a physician comes to a close."

—SMW

Life as a Question

by S.D. Williams

The question "What next?" had echoed across numerous states and countries and over decades as Saundra Maass-Robinson, MD '81, asked it, until it finally was answered by a place and a late-blooming career.

"There was no sowing of seeds for my future profession in psychiatry during my childhood," she says. "I never thought about being a psychiatrist. No one in the family had graduated from college, much less been to medical school. When I went off to college in the 1960s I went just to be a college student. Who knew what they wanted to be at that age in that era?"

Born in New York state, Maass-Robinson left home to attend Ohio State University, where she developed a fascination with the nearby medical school. When she spoke to her advisor about applying, she received an answer that sent her packing.

"My advisor told me to be a teacher and to major in physical education. This was not the answer I was looking for, and it hurt me so I left Ohio State and transferred to Michigan State."

Why Michigan State? "I had a high school friend at Michigan State who told me it was a good place. So I went. It had little to do with career plans. The point of college was simply to be in college. I had no idea what I would do afterward."

At Michigan State, Maass-Robinson majored in French and Spanish and minored in physical education. When she graduated, she faced the question: "What am I going to do now?" In the 1990s at a time when many first-year college students seem to have their lives mapped out in straight lines before them, Maass-Robinson's position may seem unfamiliar, but it was a common position for many students of that time. Therefore, for many of the students who asked themselves "what next?" found a common answer in the Peace Corps, the "French Foreign Legion" of the '60s. She signed up.

"Because of my languages, I was given a choice between South America and the Caribbean," she says. "The choice seemed obvious to me — I went to Dominica, in the Eastern Carribean and taught foreign languages along with physical education for two years."

Foreign nationals in developing countries often are introduced to each other by the local people, and Maass-Robinson was no exception. Among the visiting Americans she met on Dominica was the vacationing dean of Chapman College in Orange, Calif. Chapman College offered a semester at sea program called "World Campus Afloat," through which students sailed on a specially outfitted ocean liner-campus for a half year, taking a regular college curriculum and stopping at ports around the world for a first-hand experience of the cultures and geographies they studied. The dean offered Maass-Robinson a job on the ship when she left the Peace Corps. At first she took it as merely a friendly gesture that would come to nothing, but at the end of her two-year stint in Dominica she once again had to ask herself, "what next?" She had no specific plans or goals. This openness, however, was now showing itself to be part of the way she grows. She remembered the dean's offer and called him, thinking that he had probably forgotten all about her and his off-the-cuff invitation. But he hadn't forgotten. Maass-Robinson finished her work in Dominica in December 1968, and she put to sea from Los Angeles as a graduate advisor the next month.

"That was a magnificent half year," she says. "We sailed to Hawaii and then across the Pacific to Japan and China and near Southeast Asia, at a time when the Vietnam War was in progress. We saw much of India and Africa as well as southern Europe before finally landing in New York City. Again, not long after we landed, I had to ask myself, 'What am I going to do now?' "

It was a better era in which to be purposefully adrift than the current era. Career paths were seen as straightjackets by enough of the population that a woman in her mid 20s who wondered what she wanted to do with her life could find her way from job to job as she searched without gathering much critical baggage. It was also an era of social and political unrest, even in many traditional workplaces, and Maass-Robinson found a job at Xerox, helping to oversee the implementation of new affirmative action policies.

Saundra Maass-Robinson, MD

"This was not what I was meant to do, however," she says, laughing at the obviousness of it. "The revolution was going on. Young people now don't know what that means, but one thing it meant was that you did not want to be stuck in a corporate job. I chose another one of the usual paths for young people in those eras — graduate school — because I decided I wanted to become involved in politics and urban policy, fields that seemed very vibrant and important. And I wanted to study at a black graduate school, so I applied to Howard University and Atlanta University. I was accepted at the latter, came south and never looked back."

Atlanta, where she'd never lived, felt like home. Maynard Jackson was about to become the city's first African American mayor, and the political scene was exciting. She never finished her graduate degree, however — she married, had a child and held down a part-time job, which bloomed

into a full-time occupation. She discarded graduate studies in favor of the real world.

"I worked in the city's planning department, creating federally funded programs for neighborhood preservation," she says. "I conceived a neighborhood planning process for involving citizens in urban planning, which in fact became a model used elsewhere in the country. With this 'ticket,' I was promised a job as the director of neighborhood planning in the new administration of Atlanta's first African-American mayor. For the first time, I saw a clear future ahead of me, something I could throw myself into. But in the end I wasn't offered the position. Politics played a larger role than expertise. I could have stayed on in the planning department, but I felt I was left where I'd been left so many times before, asking myself, 'What do I do now?' I'd given it my shot and hadn't ended up with what I wanted. It was time once again to make a decision. Because of my master's program in political science as well as a long standing interest in medicine, I knew the decision was between law school and medical school. I decided I would try med school."

She sought advice about pre-med courses at the Georgia State campus in downtown Atlanta. The advice she received was eerily similar to the advice she'd received at Ohio State. Don't bother. This time the reason was that she was too old to start down this path.

"You know what that made me think," she says.

She took pre-med courses at night school for two years, still working, married and caring for a two-year-old. After two years, she applied to three medical schools: the University of Florida at Gainesville, the Medical College of Georgia and UNC-CH. UNC accepted her, and she came to Chapel Hill.

She laughs now at a joke former dean Stuart Bondurant once made about her medical school career: that she'd made honors in reproductive biology but flunked preventive medicine. "I had my second child in my second year at Chapel Hill, my third child the next year, and was divorced during my final year."

While this much activity in the midst of a grueling medical school curriculum might break most students, Maass-Robinson thrived, throwing herself into medical school as she did into everything that engaged her. She was especially intrigued during a psychiatric rotation by the interviewing process, the way a psychiatrist could make his or her way through the maze of complaints offered by a patient and arrive with clarity at a diagnosis. Still, she says, "I wanted to be a real doctor. I wanted to do family medicine."

At the end of school, an M.D. in hand, she once again faced her familiar question, the starting point for all of her steps forward: "What am I going to do now?"

She'd been offered residency positions with a North Carolina family practice and with the university's sickle cell program, but she longed to return to Atlanta, which she had adopted fiercely as her home.

"That was a tough choice," she says. "I loved my years in North Carolina. It was fun, really fun, in spite of everything going on in my life. I still feel a connection. The kids' father and godmother are in North Carolina, so we still visit, and my children went to summer camp in the mountains north of Asheville. In many ways I wanted to stay, but Atlanta had become my home.

"A good friend, Cassandra Newkirk, MD '77, was in a psychiatry residency in Atlanta. She called and urged me to come and do my residency there. I hesitated. I still had a resistance to psychiatry, even though I was fascinated by it. But not having anything else lined up, I said okay, I would do it until something better came along. So I went back to Atlanta and did a psychiatry residency with Emory University's Affiliated Hospitals. That was it. I was hooked. Because these were urban hospitals, where we saw many people coming in from the street, I saw many different kinds of people and may kinds of pathologies. I'd found what I loved. I am fascinated by the way the brain works."

In typical fashion, she has thrown herself into her work since finding it in Atlanta in the early 1980s. She cofounded a referral program for impaired medical students at Morehouse College. She founded the Rebecca Lee Society, a professional group of African American physicians, and cofounded the Institute for Living without Violence, which worked with schools, families, church groups and many others to address issues of violence in the early 1990s.

"Projects, projects, projects," she sighs. In fact, her resume is full of programs she has founded, she leads or with whom she consults. Her current activities include advising Georgia's Supreme Court Board on the fitness of lawyers for licensure, among many others. She is also in line to be the next president of the Georgia chapter of the American Psychiatric Association.

"But my love is clinical practice," she says. "Right now I'm working on a clinical trial with parolees to see if there is a subgroup whose behavior results from biochemical problems."

It seems she has settled into her life. She has a solo practice and says she enjoys working alone, but her myriad consultancies and projects keep her involved with numerous others on a daily basis. Can it truly be that she no longer ask herself what's next?

She laughs at the question. Her youngest child left for college late this summer, which will undoubtedly free up time. She ponders the question for a moment. It will always simmer in the background, but the foreground now seems to be occupied by the answer.

Match Day 1999

For the first time in the 47-year history of the National Residency Matching Program, participants learned via the World Wide Web whether they had successfully matched to a residency training program.

"The NRMP's decision to move to an electronic system was designed to assure everyone receives the information at the same time, allowing for the matching process to be as fair as possible to all participants," said NRMP Executive Director Robert Beran, PhD.

NRMP match week activities began Monday, March 15, when matched and unmatched information was released only to applicants via the web. Individuals who matched learned only that they had filled a position, but not to which specific residency program they matched. People who did not match had two days to locate and secure unfilled positions. In past years, initially unmatched participants had only 24 hours to locate available positions.

Three days later, on March 18, participants learned the identity of the residency program they would enter. The information was disseminated via the web, as well as in traditional medical school Match Day ceremonies.

At Carolina, 84 percent of seniors participating in the NRMP matched with one of their first three choices of residency programs, compared with 80.5 percent of seniors nationally. And the 64 percent of participating UNC seniors who received their first choice of residency program compared very favorably with the U.S. average of 57 percent.

A total of 58.2 percent of the class will enter first-year placements in primary care, including family practice (10.4 percent), internal medicine (18.7 percent), medicine-pediatrics (1.5 percent), medicine-preliminary (7.5 percent), obstetrics/gynecology (6.0 percent) and pediatrics (14.2 percent).

Nearly a third of the class (31 percent) will remain in North Carolina for residency placements, with more than half of those (57 percent) continuing their medical studies at UNC.

The following list excludes students who did not wish to have their names released or are undecided.

Anesthesiology

De Meyts, Daniel Dominique	Duke Univ. Medical Center, Durham
Dover, Stanley Frank	Wake Forest Univ. Baptist Med. Ctr., Winston-Salem
Flanagan, Ellen Marie	Duke Univ. Medical Center, Durham
Johnson, Yewande Joy	Univ. of Alabama Hospital, Birmingham
Johnson Jr., Bobby	UMDNJ-R W Johnson, Piscataway, NJ
Pressley, C. Christopher	Johns Hopkins Hospital, Baltimore
Seiders, Christopher David	Univ. of Washington Affil. Hospitals, Seattle

Dermatology

Goodrich, Robert Gerard	UNC Hospitals, Chapel Hill

Emergency Medicine

Duff, Barbara Anne	Medical Center-Christiana Care, Newark, DE
Flora, Lisa Ann	Medical Center-Christiana Care, Newark, DE
Harshaw, Angie Rena	Emory University, Atlanta
Howard, Tamara Annette	Howard Univ. Hospital, Washington, DC
Hung, Winny W. L.	Rhode Island Hosp./Brown Univ., Providence
Jones, Corey Robert Nicholas	Wayne State Univ./Detroit Medical Center
Rose, Noralea E. Meiki	SUNY Health Sciences Center, Syracuse
Snyder, Graham E.	North Shore Univ. Hosp., Manhasset, NY
Winslow III, James E. "Tripp"	UNC Hospitals, Chapel Hill
Zelman, Stacie J.	UNC Hospitals, Chapel Hill

Family Practice

Adams, James M.	UCLA Medical Center, Santa Monica
Burkett, Jessica Jackson	Cabarrus Family Medicine Res., Concord, NC
Burnworth, Craig Marshall	Palmetto Richland Memorial Hosp., Columbia, SC
Degenhard, Joseph Gerard	Lancaster General Hospital, Lancaster, PA
Denham, Amy Catherine	UNC Hospitals, Chapel Hill
Harrington, Lisa Jackson	Memorial Hosp. of Rhode Island, Pawtucket
Janssen, Angelisa	Central Maine Medical Center, Lewiston
Koonce, Thomas Fredrick	Univ. Health System-ECU, Greenville, NC
Laney Jr., Thomas Frederick	Spartanburg Regional Med. Ctr., Spartanburg, SC
Long, Kathryn Elizabeth	Carolinas Medical Center, Charlotte
Lowry, Garnett Marcus	Wake Forest Univ. Baptist Med. Ctr., Winston-Salem
Simmons, Donovan Mitchell	Chestnut Hill Hospital, Philadelphia
Torontow, Christopher John	Natividad Medical Center, Salina, CA
Wolff, Erica Ann	Greater Lawrence Family Health, Lawrence, MA

Internal Medicine

Bernstein, Eric Daniel	Providence Portland Med. Ctr., Portland, OR
Bowen III, Robert Calvin	Carolinas Medical Center, Charlotte
Brackbill, Stephen Paul	McGaw Med. Ctr Northwestern U, Chicago
Brown, Justin Chamberlin	Johns Hopkins Univ./Sinai Hosp, Baltimore
Brown, Latonya Antoinette	Univ. of Alabama Hospital, Birmingham
Calhoun, Ellen Hay	Wake Forest Univ. Baptist Med. Ctr., Winston-Salem
Conway, Jason David	University of Virginia, Charlottesville

Dull, Carrie Lynn	Oregon Health Sciences Univ., Portland
Dunlevie Jr., Steven Sheppard	Carolinas Medical Center, Charlotte
Fan, William L.	UNC Hospitals, Chapel Hill
Flanagan, Ellen Marie	Moses H. Cone Memorial Hospital, Greensboro
Gay, Cynthia Leigh	Vanderbilt Univ. Medical Ctr., Nashville
Gerstle, Ronald James	Barnes-Jewish Hospital, St Louis
Goldschmidt Jr., Jerome Henry	U Rochester/Strong Memorial HS, Rochester, NY
Goodrich, Robert Gerard	UNC Hospitals, Chapel Hill
Gowda, Deepthiman Krishne	NYP Hospital/Columbia-Presbyterian, New York, NY
Greenman, David Brian	Mt. Sinai/Cabrini, New York, NY
Griffin, Tina Ronea	Moses H. Cone Memorial Hospital, Greensboro
Gupta, Amit	Vanderbilt Univ. Medical Ctr., Nashville
Hewell, Martie Leonhardt	Carolinas Medical Center, Charlotte
Lee, Jennifer Heijung	Brigham & Women's Hospital, Boston
Maynor, Kenric Allen	Yale - New Haven Hospital, New Haven, CT
McCrary, Marion Mull	UNC Hospitals, Chapel Hill
Mohanty, Sanjib Prasad	Wake Forest Univ. Baptist Med. Ctr., Winston-Salem
Parsons, Alden Maier	UNC Hospitals, Chapel Hill
Powell-Tillman, LeVonne Genese	UNC Hospitals, Chapel Hill
Ralph, Jeffrey Willard	UNC Hospitals, Chapel Hill
	Univ. of California - San Francisco
Ridge, S. Brent	NYP Hospital/Columbia-Presbyterian, New York, NY
Roof, Kevin S.	U Hawaii Integ. Medicine Res., Honolulu
Seiders, Christopher David	Moses H. Cone Memorial Hospital, Greensboro
Thomas, Kevin Lindsey	Duke University Medical Center, Durham
Tsang, Julia Wai-Chi	UNC Hospitals, Chapel Hill
Underwood, Amelia Elizabeth	Univ. of Utah Affil. Hosps., Salt Lake City
Warburton, Karen M.	Hosp. of the U of Pennsylvania, Philadelphia
Winer, Eric Stephen	New England Medical Center, Boston

Medicine - Pediatrics

Temple, Ana-Maria Marinescu	M. S. Hershey Med. Ctr./Penn State, Hershey, PA
Williams, Jonathan Martin	UNC Hospitals, Chapel Hill

Neurology

Ralph, Jeffrey Willard	Univ. of California - San Francisco

Obstetrics and Gynecology

Crawford, Keenya Lazette	Reading Hospital & Medical Ctr., Reading, PA
Eure, Chineta Rena	Emory University, Atlanta
Goldschmidt, Cathleen M. Callahan	U Rochester/Strong Memorial HS, Rochester, NY
Heider, Angela Lowe	UNC Hospitals, Chapel Hill
Holland, Claire Estelle	University of New Mexico, Albuquerque
Joy, Saju Daniel	Univ. of Florida HSC, Jacksonville
McCarthy, Oesiree Monique	Duke University Medical Center, Durham
Roberts, Angela Yvette	Einstein/Jacobi Medical Center, Bronx, NY
Song, Arleen Hyonsook	Univ. of Michigan Hospitals, Ann Arbor

Ophthalmology

Brown, Justin Chamberlin	Johns Hopkins Univ./Sinai Hosp., Baltimore
Greenman, David Brian	New York University Med. Ctr., New York

Orthopedic Surgery

Cash, Andrew Miller	Georgia Baptist Medical Center, Atlanta
Chiavetta, John Bryan	Mayo Graduate School of Med., Rochester, MN
Logel, Kevin John	Univ. of Utah Affil. Hosps., Salt Lake City
Mullis, Brian Heath	UNC Hospitals, Chapel Hill
Temple, John David	M. S. Hershey Med. Ctr./Penn State, Hershey, PA
Tuttle, Harrison Gray	U Vermont/Fletcher Allen Health Care, Burlington
Wood, Mark Lyndon	UNC Hospitals, Chapel Hill

Otolaryngology

Crouse II, Charles David	University of Virginia, Charlottesville
Miller, Robert Sean	University Hospital, Cincinnati
Noone, Michael Curran	Medical Univ. of South Carolina, Charleston

Pathology

Morrison, Mara M.	McGaw Med. Ctr. Northwestern U, Chicago

Pediatrics

Byun, Peggy Ann	Wake Forest Univ. Baptist Med. Ctr., Winston-Salem
Cameron II, Hugh Scott	Johns Hopkins Hospital, Baltimore
Dodson, Leigh Masten	Univ. of Louisville, Louisville, KY
Elisburg, Michelle Eileen	North Shore Univ. Hosp., Manhasset, NY
Floyd, Kymberly Nicole	Carolinas Medical Center, Charlotte
Gard, Robert Chesson	University of Connecticut, Farmington
Hardin, Christina	Univ. Health System - ECU, Greenville, NC
Herriott, Victoria Margaret	Vanderbilt Univ. Medical Ctr., Nashville
Holsti, Maija	UNC Hospitals, Chapel Hill
Jessup, Ryan Lea	Univ. of Utah Affil. Hosps., Salt Lake City
Lambert, Melissa Lorraine	Vanderbilt Univ. Medical Ctr., Nashville
Lee, Erin Elizabeth	Rush-Presbyterian-St Luke's, Chicago
Lopez-Linus, Marchi Vor	UNC Hospitals, Chapel Hill
Meares Jr., Ben Miller	Greenville Hospital System, Greenville, SC
Parsons, Stephen Frederick	UNC Hospitals, Chapel Hill
Rice, Tara Michelle	U Florida Program/Shands Hosp., Gainesville
Shivers, Laura Allison	Vanderbilt Univ. Medical Ctr., Nashville
Strandhoy, Suzanne Elizabeth	Univ. of Washington Affil. Hosps., Seattle
Williams, La Claire	Univ. of Arizona Affl. Hospitals, Tucson

Psychiatry

Arrington, Erica Michelle	UNC Hospitals, Chapel Hill
Bradford, Daniel William	UNC Hospitals, Chapel Hill
Browning, Charles Thomas	UNC Hospitals, Chapel Hill
Crosby Jr., Kenneth Lee	New York Presbyterian Hosp./ Cornell, New York
Evans, Bryon Kirkland	New York University Med. Ctr., New York
Gustke, Erik Jonathan	Cambridge Hospital, Cambridge, MA
Hunt, Tyehimba Afrika	UNC Hospitals, Chapel Hill
Murty, Radhika Ganti	Baylor College of Medicine, Houston
Thompson, Christopher R.	UCLA Neuropsychiatric Institute, Los Angeles
Turnier, Anne-Marie	U Virginia Roanoke-Salem Prog., Roanoke
Vance, Brandon Jeremy	U Wisconsin Hosp. and Clinics, Madison
Young Jr., John Joseph	UNC Hospitals, Chapel Hill

Radiology - Diagnostic

Gerstle, Ronald James	Barnes-Jewish Hospital, St Louis
Parson, Mark Randall	Emory University, Atlanta
Tate, Knox R.	Emory University, Atlanta

Radiology - Oncologic

Archie, Victor C.	UCLA Medical Center, Los Angeles
Roof, Kevin S.	Massachusetts General Hospital, Boston

Surgery

Crouse II, Charles David	University of Virginia, Charlottesville
Davis, Harriet Neely	East Tennessee State Univ., Johnson City
Dingman, Stephen Michael	U Tennessee College of Med., Memphis
DuBose, Robert Adams	Univ. of Washington Affil. Hosps., Seattle
Heider, T. Ryan	UNC Hospitals, Chapel Hill
Kang, John Suk-Hoon	Dartmouth-Hitchcock, Lebanon, NH
Lang, Julie Eileen	Univ. of California - San Francisco
Lightfoot Jr., Harry McKinley	UNC Hospitals, Chapel Hill
Miller, Robert Sean	University Hospital, Cincinnati
Noone, Michael Curran	Medical Univ. of South Carolina, Charleston
Tiwana, G. Paul Singh	UNC Hospitals, Chapel Hill

Transitional

Archie, Victor C.	Spartanburg Regional Med. Ctr., Spartanburg, SC
Dover, Stanley Frank	Carilion Health System, Roanoke, VA
Graves, Nikki LaShan	Spartanburg Regional Med Ctr., Spartanburg, SC
Johnson, Yewande Joy	Carraway Methodist Med. Ctr., Birmingham
Pressley, C. Christopher	Emory University, Atlanta
Tate, Knox R.	Georgia Baptist Medical Center, Atlanta

Faculty Notes

Myron S. Cohen, MD, professor and chief of infectious diseases, received the 1999 Distinguished Alumnus Award from Rush Medical College at Rush-Presbyterian-St. Luke's Medical Center in Chicago. The award, given annually to a graduate who has made a significant contribution to medicine, was bestowed June 11 at the college's commencement banquet.

Cohen, also director of UNC's Center for Infectious Diseases and professor of microbiology and immunology, is an expert on sexually transmitted diseases, especially the relationship between such diseases and HIV, the virus that causes AIDS. Working in Africa and other areas, he and colleagues proved that illnesses such as syphilis and gonorrhea greatly enhance transmission of HIV and that by aggressively treating patients with other STDs, health workers also can slow the AIDS epidemic.

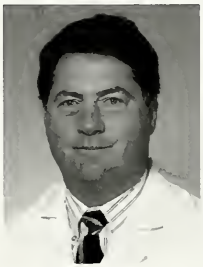
Cohen earned his medical degree with the first graduating class from Rush in 1974.

William Droegemueller, MD, professor and chair emeritus of obstetrics and gynecology, received the Distinguished Service Award from the American College of Obstetricians and Gynecologists. The award recognizes outstanding individuals in obstetrics and gynecology who have made significant contributions to ACOG in government, research, teaching and patient care.

Droegemueller

Droegemueller chaired UNC's Department of Obstetrics and Gynecology from 1982-96. He served as director of evaluation for the American Board of Obstetrics and Gynecology since 1988 and is a past member of the Executive Committee of the American Board of Medical Specialists, past chair of the Council on Residency Education in Obstetrics and Gynecology, and past president of the Association of Professors of Gynecology and Obstetrics. His textbook, "Comprehensive Gynecology," is considered one of the most widely read and referenced publications covering its field.

William E. Garrett Jr., MD, PhD, Frank C. Wilson distinguished professor and chair of orthopaedics, received the Citation Award of the American College of Sports Medicine. The award cites persons who have an exemplary research and professional history. It is one of the two highest awards given by the American College of Sports Medicine, the largest professional association devoted to sports medicine.



Garrett

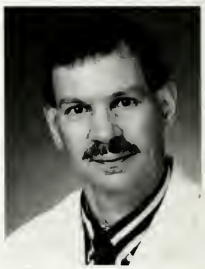
Robert N. Golden, MD, professor and chair of psychiatry, has been appointed to a three-year term on the Committee on Research on Psychiatric Treatments of the American Psychiatric Association.

Henry A. Greene, OD, clinical associate professor of ophthalmology, received the Winston Gordon Award of the Canadian National Institute for the Blind as one of the developers of the first self-focusing telescopic glasses for people with poor vision.

Vicky A. LeGrys, DA, professor of clinical laboratory science, received a Burroughs Wellcome Research Travel Grant for 1999. LeGrys spent nine weeks this summer in the United Kingdom conducting research on the laboratory diagnosis of cystic fibrosis. She also visited hospitals in London, Essex, Birmingham and Cardiff collaborating with UK scientists and presenting seminars on the standardization of sweat chloride testing and newborn screening programs for CF.

LeGrys

Matthew A. Mauro, MD, professor of radiology and vice chair of clinical affairs, was elected president of the Society of Cardiovascular and Interventional Radiology. The national scientific organization promotes education, research and communication in the field while providing leadership in the development of health-care policy.



Mauro

Gary B. Mesibov, PhD, professor of psychiatry and director of TEACCH, was the honored guest and keynote speaker at a symposium at the University of Mons-Hainaut in Mons, Belgium. TEACCH was the first program in the nation to offer comprehensive and community-based professional assistance for families to help them understand and treat autism and avoid unnecessary institutionalization.

Mesibov

Margaret L. Moore, EdD, PT, former professor and director of Allied Health's Division of Physical Therapy, has been named a Catherine Worthingham Fellow by the American Physical Therapy Association.

In addition to her work at UNC, Moore taught in the Army and at the University of Wisconsin-Madison, contributed to the development of the PT program at the Medical University of South Carolina, and served as a consultant to numerous other developing physical therapy programs. In research, Moore's efforts in clinical education led to the first widely recognized clinical education evaluation tool. Her research in the areas of measurement and goniometry are considered the earliest work on the reliability of physical therapy assessments.

Moore has been recognized with numerous awards, and has the distinct honor of hav-

Moore

ing an award named for her: The APTA's Margaret L. Moore Award for Outstanding New Faculty Member, established in honor of her long history of development of young faculty members.

The Catherine Worthingham Fellowships were established in 1980 "to recognize those persons whose work ... has resulted in lasting and significant advances in the science, education and practice of the profession of physical therapy." Catherine Worthingham was the first physical therapist to earn a doctorate. She was an exemplary leader in physical therapy education, science and practice for more than 50 years.

Warren P. Newton, MD, associate professor of family medicine, has been named chair of the department. He succeeds Kenneth G. Reeb, MD, who retired June 30.

Newton

After graduating magna cum laude from Yale, Newton earned his M.D. from Northwestern University. He completed a residency in family medicine at UNC in 1987, and earned an MPH in epidemiology from the UNC School of Public Health. After two years as a Robert Wood Johnson Clinical Scholar and an additional year as a NRSA Primary Care Research Fellow, Newton joined the UNC family medicine faculty in 1990. He is also a research associate at the Sheps Health Services Research Center.

Newton was the first director of UNC's Family Practice Inpatient Service and later was residency director in the Department of Family Medicine. He is currently medical director of UNC Home Health and director of the Population Health Project, UNC Hospitals' first population-management initiative.

Newton's research interests revolve around the application of evidence to routine clinical practice and the management of cost and quality in populations of patients. He has lead a number of initiatives to improve the quality and cost-effectiveness of care for an elderly population, including development of a family practice-based hospitalist system, a novel approach to care management and practice reengineering to improve vaccination rates.

William A. Rutala, PhD, professor of medicine in the Division of Infectious Diseases, received the 1999 Carole Demille Achievement Award of the Association for Professionals in Infection Control and Epidemiology. Rutala directs UNC Hospitals' occupational health and safety program and the statewide program for infection control and epidemiology, which he founded.

John E. Sondek, PhD, assistant professor of pharmacology, has been chosen as one of 20 Pew Scholars in the Biomedical Sciences for 1999. The Pew Charitable Trusts provide support to promising young investigators in the basic and clinical sciences. Sondek will receive $200,000 over four years to support his research on the structural biology of G proteins. Mutated G proteins are implicated in cancer and other diseases.

Kim S. Uhrich, CCSW, clinical instructor and clinical care coordinator for the Division of Plastic and Reconstructive Surgery, has been elected to a three-year term as secretary of the American Cleft Palate-Craniofacial Association and Cleft Palate Foundation.

Uhrich

The association is an international, multidisciplinary, nonprofit group of more than 2,600 professionals who treat or research cleft lips and palates and other craniofacial problems. The foundation, a nonprofit affiliate of the association, helps those with head and neck birth defects and their families.

Frank C. Wilson, MD, professor and former chief of orthopaedics, has been named the Distinguished Southern Orthopaedist for 1999 by the Southern Orthopaedic Association. This distinction is presented each year to a member of the association for longstanding contributions to the field of orthopaedics. UNC medical alumnus W. Jason McDaniel, MD '67, president of the association, presented the award at the association's annual meeting in July.

Steven H. Zeisel, MD, PhD, professor and chair of nutrition, received a renewal award for his grant "Computer-Based Nutrition Curriculum," a Cancer Education R25 from the National Cancer Institute for the period December 1, 1998 through November 30, 2001. The project includes the design, implementation and evaluation of nine computer programs focusing on the role of nutrition in the etiology and prevention of diseases, including cancer.

Three School of Medicine dermatology professors rank among the 25 top-cited authors in dermatology literature. Professor **Robert A. Briggaman, MD**, Professor **Jo-David Fine, MD, MPH**, and former professor **W. Ray Gammon, MD**, were named in the March issue of *Archives of Dermatology*. The article, "Top Cited Authors in Dermatology," summarized a study that identified authors whose publications in clinical dermatology journals were most often cited in medical literature. Twenty-four journals from 1981-96 were studied.

Briggaman and Gammon ranked 15th and 25th, respectively, among authors of all types of papers regardless of authorship placement. Fine and Gammon ranked first and second among first authors of original articles. Gammon was one of only four authors to be in the top 25 in both listings.

The University of North Carolina Press has published the first volume in a new series called "Studies in Social Medicine" written by three UNC faculty members. **Nancy M.P. King, JD**, and **Gail E. Henderson, PhD**, both associate professors of social medicine in the School of Medicine, and Dr. Jane Stein, professor of maternal and child health in the School of Public Health, developed the series.

The first book, "Beyond Regulations: Ethics in Human Subjects Research," looks closely at how medicine shapes and is shaped by social forces. King, Henderson and Stein plan to publish a collection of books that explain medicine as a social and cultural force. The books will continue and enhance interdisciplinary work in the humanities, social sciences and health sciences.

Supporting Tar Heel Medical Education

Or, why Dr. Ray Hayworth is happy his retirement plan will end up in Chapel Hill, instead of Washington, D.C.

Ray and Teenie Hayworth with Anatasia — one of 50 horses that board on their farm outside Knoxville, Tenn.

by Ginger Travis

Ray Hayworth is one of the fortunate, and he knows it.

"If not for UNC I could not have afforded to go to med school," he says.

Hayworth, BSMED '59 MD '62, lives on a horse farm near Knoxville, Tenn., with his wife, Teenie. It's a long way from his childhood home in Asheboro, N.C., where his father died when he was two years old, and where he drove himself relentlessly to reach his goal of entering medical school.

Now 62 years old, Hayworth, a psychiatrist, retired six years ago from his solo practice. He devotes his energies to fund raising, as a volunteer, on behalf of the Knoxville Museum of Art, the Knoxville Community School of the Arts, and the East Tennessee Community Design Center.

When Hayworth says, "I can be passionate about endowments," he really means it. To his Knoxville nonprofit organizations he preaches the gospel of ensuring long-term survival by building an endowment — a permanent fund created with private gifts and invested to produce income and an inflation hedge.

He has backed his words with his money too, not only in Knoxville but also in Chapel Hill, the place that gave him his start in medicine.

"The four words I think of when I think of my involvement there [the UNC-CH School of Medicine] are appreciation, gratitude, pride and reciprocity."

The Hayworths have already funded an endowment to assist psychiatric residents at Carolina. They will continue to support it with annual contributions. The first priority for the use of income from the Dr. Ray M. and Mrs. Christine G. Hayworth Excellence Fund for Psychiatric Residency Training is to provide stipends to help psychiatric residents pay for their own therapy. Hayworth, who specialized in individual psychotherapy, says, "I believe strongly that no one should practice psychotherapy who hasn't experienced it." Another permitted use will be teaching awards for faculty, the recipi-

ents to be selected by psychiatric residents.

Recently Hayworth took an additional step. In putting together an estate plan with his wife, he decided to benefit the medical school after his death by making two endowment funds in the Medical Foundation the primary beneficiaries of his Keogh retirement fund assets, which currently are valued at about $500,000.

Why did he choose to give to the Medical Foundation whatever remains of his retirement fund assets rather than leave them to his wife and children?

And why would he advise you to consider the possibility of doing the same?

Three reasons.

First and most important, Ray and Teenie Hayworth believe in giving back to their community and the schools they attended.

Second, their estate is large enough that it will be liable for federal estate taxes after they die. (Under the current law, the threshold amount for an estate will rise gradually from $650,000 in 1999 to $1 million by the year 2006. This could change, pending new legislation from Congress.)

Third, they know that tax-deferred retirement accounts — Keoghs, traditional IRAs and 401(k)s — can be reduced to as little as 25 percent of their value by combined federal estate tax and income tax. The combination of estate taxes and income taxes due on tax-deferred retirement funds is huge.

That's why it may make sense for a charitably-minded person with a large estate to give away the assets that are taxed most heavily after death — tax-deferred retirement plans. (See the box for different ways to do this.) *The good news: when retirement plan assets pass directly to a charity after death, there are NO estate taxes and NO income taxes.*

As Hayworth says, "What you're doing is converting tax dollars into charitable dollars."

(An important note here: the Hayworths got professional estate-planning advice. So should you, if the idea of giving retirement plan assets appeals to you. There are important tax implications.)

Hayworth has made the Medical Foundation the primary beneficiary of his Keogh plan. He has directed the school to split the assets, after his death, between the Medical Alumni Endowment Fund (75 percent) and the Hayworth Excellence Fund for Residency Training (25 percent). The Medical Alumni Endowment supports research projects by medical students, faculty members, and residents.

If you guessed from Hayworth's generosity that he had a great time as a Carolina student, you'd be wrong. Despite rooming with his two brothers in Mangum Dorm while he was an undergraduate, he didn't have much fun. He had his eye on one thing only: to get into medical school and become a doctor.

"My memories are of a continuous, relentless grind to make the best grades I could possibly make. I was obsessed with it. I was very driven."

But his work did pay off. Hayworth entered medical school at Carolina after his junior year. Once he'd earned the M.D. degree, he interned at the U.S. Naval Hospital in Philadelphia, then graduated from the U.S. Naval School of Aviation Medicine. He served three years as a flight surgeon stationed at Memphis. After discharge from the Navy he did his residency in psychiatry at the University of Tennessee medical units in Memphis. In 1970 he moved to Knoxville and spent the next two decades working in long-term individual psychotherapy. When he finally tired of leaving home at 6 a.m. and returning at 11 p.m. he set a goal to retire within five years.

He made it on time. "I enjoy my life a lot more than I used to," he says.

But Hayworth is still a doer. Besides his community work in Knoxville, he serves on the board of directors of the Medical Foundation of North Carolina and on the National Loyalty Fund Steering Committee and the Medical Alumni Council of the Medical Alumni Association.

Of UNC, he says, "It's always been a special place in my mind, even though it wasn't a fun place. I'm proud of it. When I left the state I saw how people in other places perceive UNC and its medical school. It is highly regarded as a place of excellence. As I've gotten older, I have gotten to the point of wanting to give something back."

Hayworth has put his good intentions into action. Medical education at UNC will be the better for it. If you, too, want to plan a gift to the Medical Foundation to benefit the School of Medicine, please call or email Jane McNeer: 919-966-1201 or jmcneer@email.unc.edu. □

Four ways to make a charitable gift to the Medical Foundation with your tax-deferred retirement plan assets.

Important note: All of the following scenarios assume that your estate will be large enough to be subject to federal estate taxes and that as much as 75 percent of your retirement plan assets could be consumed by combined estate and income taxes. Pending federal legislation could change the current estate and income tax rules.

You can give your remaining retirement fund assets to the Medical Foundation upon your death. The gift will escape all taxes, and you will leave a lasting legacy at the UNC-CH School of Medicine. It is very easy to arrange. Just ask your retirement plan administrator to send you the form for changing your beneficiaries. Then make the Medical Foundation the primary beneficiary in the event of your death.

If you are drawing an annual distribution from your retirement plan, you can give it to the Medical Foundation. You still will be liable for income taxes on the distribution, but you may find that the charitable-gift deduction offsets the tax liability.

You can arrange for your retirement plan assets, after your death, to go into a charitable remainder trust to provide lifetime income to your spouse with the remainder to pass to the Medical Foundation after your spouse's death. You receive the satisfaction of leaving a sizable legacy to medical education at Carolina while still providing lifetime income to a loved one. Your spouse will be liable for income tax on the income he/she receives, but the assets you place in the charitable remainder trust will not be subject to federal estate tax.

Likewise, you can arrange for your retirement plan assets, after your death, to go into a charitable remainder trust to provide lifetime income to a child. Upon the child's death, the remaining trust assets pass to the Medical Foundation to benefit the School of Medicine. In this case some, but not all, estate taxes are avoided. However, the child receives needed income, and the School of Medicine benefits greatly from your generosity.

Important note: Always consult a qualified financial and/or legal advisor in making estate plans.

Gordon LeGrand Assumes MAA Presidency

by Crystal Carson

"There is nothing – absolutely nothing – half so much worth doing as simply messing about in boats." — Kenneth Grahame, *The Wind in the Willows*

The life of a sailor is a lot like the life of a pathologist. What?

Well, that's what Gordon LeGrand, MD '65, says. And he should know. The new president of the Medical Alumni Association has been practicing pathology and sailing competitively for nearly 30 years.

"In competitive sailing you have to concentrate and stay focused because conditions vary constantly," LeGrand says. "I have to make the same effort in my work. But, obviously, sailing is more fun."

While sailing is his favorite way to relax, LeGrand is a family man first. Sailing took second place while his sons were young and he and his wife traveled from soccer game to soccer game. During those years, he transported, coached and cheered. Now that his sons are grown, LeGrand is sailing frequently again.

LeGrand knew that those early years were important for his sons; it was his own experiences as a youth that inspired him to pursue a career in medicine.

A Chapel Hill resident from the age of 12, LeGrand recalls being a patient at N.C. Memorial Hospital. "I sat in clinics all afternoon while Dr. Beverly Raney rounded up residents to see this example of a not too uncommon problem," he recalls. "I guess patients were more scarce back then."

Certain Chapel Hill physicians were special role models for young LeGrand. "I remember how Dr. Fred Patterson and Dr. William Joyner would make house calls. I really admired those men," LeGrand says.

LeGrand's medical education began at Davidson College, where he earned a degree in pre-medicine. He graduated from the UNC School of Medicine in 1965 and completed his pathology residency in Chapel Hill between 1965 and 1970. Following his residency, LeGrand served in the U.S. Army at the Darnell Army Hospital in Ft Hood, Texas. In 1972, he began practicing at Wake Medical Center in Raleigh, where he remains today.

Gordon LeGrand, MD, new president of the Medical Alumni Association, makes time in his busy life for his favorite hobby — sailing. In 1983, he won the Michelob Cup, a distance race from Oriental to New Bern, N.C.

Stepping into the Medical Alumni Association presidency is a huge responsibility, he says. However, he is enthusiastic about taking on the new role. "Jim Hundley is a tough act to follow," LeGrand says. "But I see myself as a traditionalist and I hope to continue the successful path that Hundley pursued last year."

While LeGrand admits that he does not relish public speaking, he enjoys meeting alumni and students. He hopes to encourage alumni to maintain or reestablish their close ties to the School of Medicine during his term.

A successful Loyalty Drive fund is another goal on LeGrand's agenda for next year. "I want alumni to be close to the School of Medicine. It is their foundation and their future," he says. □

Development Notes

Pulmonary Medicine dedicates Hunter-Barnett Learning Resources Center

The former director of pulmonary medicine at UNC, Professor Emeritus Thomas B. Barnett, MD, was honored this spring with the establishment of a pulmonary training resource center at the School of Medicine, thanks to the generosity of the family of the late Charles Cree Hunter Jr., MD '58.

Hunter was a resident and research fellow at UNC during Barnett's tenure as head of pulmonary medicine. Over the years the two developed a close working relationship, and when Hunter died in 1967, Barnett remained a loyal family friend.

A few years ago, F. Neal Hunter, president and CEO of Cree Research in Durham, wanted to make a lasting tribute to his father and Barnett, and the Hunter-Barnett Learning Resources Center was born.

Located in the Burnett-Womack building, the center houses computers, instructional videos, textbooks, and other resource materials, largely focused on pulmonary medicine. It is a reflection of the pulmonology division's commitment to cutting-edge technology, and provides a margin of excellence important in the recruitment of pulmonary fellows.

At a ribbon-cutting ceremony in April, Barnett and Hunter's sons – Neal, Eric and Jeff – joined Dean Jeffrey L. Houpt, MD, Pulmonary Medicine Chief Richard Boucher, MD, and Fellowship Director Patricia Rivera, MD, in dedicating the center.

Current pulmonary medicine chief Richard Boucher, MD (right), visits with Professor Emeritus Thomas Barnett, MD, director from 1952-1975, at the dedication of the Hunter-Barnett Learning Resources Center.

Annabel Hunter Harrill and her sons, (from left) Jeff, Neal and Eric were among the many Hunter family members gathered at the dedication in memory of Charles Cree Hunter Jr., MD '58.

Med center receives donated power protection systems

Thanks to the donation of valuable equipment by a Raleigh power protection solution provider, faculty and staff at the UNC medical center can be sure the power will stay up and running.

Powerware Corp. is donating 30 line-interactive uninterruptible power systems (UPS) to be used in computers throughout the School of Medicine. The company also donated a larger, online UPS for the N.C. Women's Hospital, which is scheduled to open in August 2000. "The total gift is valued in excess of $100,000," said Mark A. Ascolese, vice president, large systems group and product marketing for Powerware.

Uninterruptible power systems are used to ensure continuous power to important electronic equipment such as workstations, networks, and telecommunications equipment. Power protection in a hospital is especially important with such equipment as life support. These state-of-the-art systems will enhance quality patient care and safety, particularly through New Year's, with its Year 2000 (Y2K) computer concerns.

Headquartered in Raleigh, Powerware Corp. is a member of the Invensys Power Systems Division. Invensys is a leader in the controls and automation industry.

Late N.C. couple bequeathed $2.4 million to benefit UNC pediatrics

A woman who served in the Women's Auxiliary of N.C. Memorial Hospital and her husband bequeathed $2.4 million to the Department of Pediatrics, The Medical Foundation of North Carolina announced in June.

A representative of the estate of the late Charles E. and Katherine M. Brewer presented a check to Jeffrey L. Houpt, MD, dean of the School of Medicine and CEO of UNC Health Care, and Roberta Williams, MD, chair of the Department of Pediatrics.

Officials announced that per the Brewers' wishes, $1 million of the gift will be dedicated to a professorship designated for the chair of the Department of Pediatrics, and $1.4 million will create an endowment for the advancement of children's research and health care programs.

"Children's research and health care are chronically underfunded in this country," Houpt said. "This gift will go an enormous way in furthering our children's programs."

"This is an important milestone for the Department of Pediatrics because it is the first endowed chair in Pediatrics. This generous gift will allow us to further our mission of applying new scientific knowledge to advance the health care of children in North Carolina," Williams added.

Charles Everett Brewer was a native of Pennsylvania. An accountant with a lumber company, he retired to Chapel Hill in 1956 with his wife, the former Katherine Margaret Koch, also a Pennsylvania native. After moving to Chapel Hill, Mrs. Brewer became active in the Women's Auxiliary of N.C. Memorial Hospital, today a part of the UNC Health Care family.

Mr. Brewer died in 1988, followed by Mrs. Brewer in July 1998.

Marcus Hudson, a Chapel Hill attorney and friend of the Brewers, is the executor of their estate. He says he can only guess why they left the gift. "This was where they were, she volunteered at the hospital and they did not have any children," he said. "So they chose to benefit children in this way."

The funds, which will be held by The Medical Foundation of North Carolina, will be named the "Charles Everett and Katherine M. Brewer Professorship in Pediatrics" and the "Charles Everett and Katherine M. Brewer Children's Fund."

Marcus Hudson (second from left) presents a check for $2.4 million to (from left) Roberta Williams, MD, chair, pediatrics; Jeffrey L. Houpt, MD, dean, School of Medicine; and James Copeland, president, The Medical Foundation of North Carolina, Inc.

Reunion and regional committee chairs presented more than $396,000 in Loyalty Fund donations at the Spring Medical Alumni Banquet in Chapel Hill. Final campaign totals for the year ending June 30, 1999, are listed below.

Class/Region	Number of Volunteers	Percent Participation	Total Cash & Pledges
Class of 1949	8	19/41 (47%)	$9,300
Class of 1954	9	22/35 (63%)	$9,000
Class of 1959	18	29/51 (57%)	$24,800
Class of 1964	10	21/57 (36%)	$14,500
Class of 1969	20	30/63 (48%)	$47,200
Class of 1974	18	41/97 (42%)	$17,400
Class of 1979	17	44/128 (34%)	$18,800
Class of 1984	25	40/146 (27%)	$12,700
Class of 1989	29	38/146 (26%)	$14,050
Class of 1999	59	82/95 (86%)	$24,500
Atlanta	10	43/115 (37%)	$19,000*
Buncombe County	12	28/68 (41%)	$13,000*
Durham County	11	48/119 (40%)	$10,000
Forsyth County	31	41/101 (41%)	$27,200
Guilford County	26	81/156 (52%)	$39,500
Mecklenburg Co.	44	97/226 (43%)	$33,700
New Hanover Co.	13	46/76 (61%)	$24,000*
Wake County	26	111/259 (43%)	$37,700

**Cash only, not including pledges.*

Loyalty Fund Leadership 1998-99

Area Campaigns
Atlanta
George W. Cox, MD '66 Chair
Buncombe County
Jane Lysko Isbey, MD '81 Co-Chair
Brentley D. Jeffries, MD '85 Co-Chair
Durham County
William L. London IV, MD '55 Chair
Forsyth County
Thomas C. Spangler, MD '84 Chair
Guilford County
Drew A. Jones, MD '91 Co-Chair
Leigh H. Jones, MD '90 Co-Chair
Mecklenburg County
Julian S. Albergotti, Jr., MD '55 Co-Chair
John A. Kirkland, Jr., MD '85 Co-Chair
New Hanover County
John M. Herion, MD '83 Co-Chair
William R. Sutton, MD '87 Co-Chair
Wake County
Vartan A. Davidian, MD '67 Co-Chair
H. Clifton Patterson III, MD '74 Co-Chair

Reunion Campaigns
Class of 1949
J. Dewey Dorsett, Jr., MD Chair
William A. Dunnagan, MD
Christopher C. Fordham, MD
F. Sidney Gardner, Jr., MD
Robert A. Griffin, MD
Edward B. McKenzie, MD
Rose Pully, MD
G. Earl Trevathan, Jr., MD

Class of 1954
James C. Parke, Jr, MD Chair
A. Joseph Diab, MD
Charles H. Owens, MD
Charles G. Robertson, Jr., MD
Allen Spencer, MD
William H. Weinel, Jr., MD
Edward S. Williams, Jr., MD
Virgil A. Wilson, MD
A. Donald Wolff, MD

Class of 1959
Joel S. Goodwin, MD Chair
Robert W. Brawley, MD
Robert C. Brown, MD
D. Whitaker Davis, MD
Otis N. Fisher, Jr., MD
George W. Gentry, Jr., MD
Charles F. Gilbert, MD
William M. Ginn, Jr., MD
Robert L. Green, Sr., MD
O. James Hart, Jr., MD
Morris A. Jones, Jr., MD
David L. Kelly, Jr., MD
E. Carwile LeRoy, MD
Edward L. Mitchell, MD
Julian W. Selig, Jr., MD
Shahane R. Taylor, Jr., MD
Charles E. Trado, Jr., MD
C. Carl Warren, Jr., MD

Class of 1964
James F. Earnhardt, MD Chair
Harry L. Broome, MD
G. Patrick Henderson, MD
D. Charles Hunsinger, MD
Jefferys A. Macfie, Jr., MD
Ronald L. Mauldin, MD
Noel B. McDevitt, MD
Artus M. Moser, Jr., MD
Russell C. Taylor, MD
James L. Williams, MD

Class of 1969
H. Wallace Baird, MD Chair
W. Woodrow Burns, Jr., MD
Andrew Davidson, MD
C. Ellis Fisher, MD
Hugh J. Grant, Jr., MD
Thomas R. Griggs, MD
G. Patrick Guiteras, MD
Edward W. Haselden, Jr., MD
John G. Johnston, MD
Richard A. Keever, MD
C. Dayton Kirk, MD
R. James MacNaughton, MD
George E. Newsome, MD
H. Harris Pittman, MD
W. Thomas Rowe, MD
Joseph D. Russell, MD
James W. Snyder, MD
Karen C. Sorrels, MD
Franklin T. Tew, MD
C. Thomas Whiteside, MD

Class of 1974
Joseph M. Jenkins, MD Chair
Robert M. Alsup, MD
Charles B. Beasley, MD
Thomas W. Bouldin, MD
William E. Bowman, Jr., MD
Donald C. Brown, MD
Paul S. Camnitz, MD
Charles D. Collins, MD
Donna E. Frick, MD
Margaret B. Harper, MD
Sheppard A. McKenzie III, MD
H. Clifton Patterson III, MD
Harold C. Pollard III, MD
David A. Rockwell, MD
Charles W. Smith, Jr., MD
David E. Tart, MD
David T. Tayloe, Jr., MD
William G. Wilson, MD

Class of 1979
Darlyne Menscer, MD Chair
Charles H. Barrier, MD Vice Chair
Mack W. White III, MD Vice Chair
Doris Batts-Murray, MD
Elizabeth A. Eagle, MD
Allen R. Edwards, MD
Ira R. Friedlander, MD
Patricia K. Hill, MD
L. Ann Nunnally, MD
Richard L. Sigmon, Jr., MD
Margery S. Sved, MD
Paul A. Vadnais, MD
Anita S. Westafer, MD
John M. Westafer, MD
C. Phillip Whitworth, MD
Leonard S. Wojnowich, MD
O. Barry Wynn, MD

Class of 1984
James R. Harper, Jr., MD Chair
James P. Alexander, Jr., MD
Steven J. Citron, MD
Margaret L. Gulley, MD
Ronald P. Hargrave, MD
Helen E. Harmon, MD
Elizabeth W. Koonce, MD
Robert P. Lineberger, MD
R. Glen Medders, MD
Gregory D. Parker, MD
Richard G. Saleeby, MD
David L. Sappenfield, MD
Sharon R. Stephenson, MD
Richard C. Stuntz, Jr., MD
Denny C. Tate, MD
Cathy W. Thomas, MD
Paul E. Viser, MD
Mark L. Warren, MD
A. Landon Wellford IV, MD
Walter B. Beaver, Jr., MD
D. Antonio Bell, MD
Howard W. Newell, Jr., MD
Thomas C. Spangler, MD
Robert A. Wainer, MD
Robert E. Wiggins, Jr., MD

Class of 1989
John H. Stephenson, MD Chair
Paul E. Austin, MD Vice Chair
Daniel M. Kaplan, MD Vice Chair
H. Merle Miller, MD Vice Chair
Rebecca M. Ryder, MD Vice Chair
Yolanda V. Scarlett, MD Vice Chair
Lanier H. Ayscue, MD
Kristin D. Baker, MD
Scott M. Baker, MD
Laura H. Berglund, MD
Lisa K. Burke, MD
Shannon S. Carson, MD
D. Scott Covington, MD
Sarah K. Girardi, MD
Carol E. Golin, MD
Daniel T. Goulson, MD
W. Randolph Harris IV, MD
Cherri D. Hobgood, MD
Rosemary Jackson, MD
Tammy H. Jenkins, MD
Johnnie A. Lee, MD
Christopher McKinney, MD
Melissa M. McLeod, MD
Gregory F. Murphy, MD
Philip W. Royal, MD
Gertrude K. Shahady, MD
Patricia G. Singer, MD
Christopher P. Tardif, MD
Lydia N. Wright, MD
Wendell G. Yarbrough, MD

Class of 1999
Marie J. Nash Chair
Victor C. Archie Vice Chair
H. Scott Cameron II Vice Chair
Robert A. DuBose Vice Chair
Carrie I. Dul Vice Chair
Ellen M. Flanagan Vice Chair
Kymberly N. Floyd Vice Chair
Yewande Johnson Vice Chair
John S. Kang Vice Chair
Joshua W. Knowles Vice Chair
Marchi V. Lopez-Linus Vice Chair
Marion M. McCrary Vice Chair
R. Sean Miller, Jr. Vice Chair
Elizabeth C. Roede Vice Chair
Aneesh K. Singla Vice Chair
Johann Torres Vice Chair
L. Gerard Toussaint III Vice Chair
A. Elizabeth Underwood Vice Chair
Paul L. Winslow III Vice Chair
John J. Young, Jr. Vice Chair
James M. Adams
Alvin K. Antony
Erica M. Arrington
Stephen P. Brackbill
Peggy A. Byun
Ellen H. Calhoun
Carolyn Celi
Romulo Colindres, Jr.
Harriet Davis
Stephen Dingman
Stanley Dover
Brian W. Downs
Steven Dunlevie, Jr.
Bryon K. Evans
William Fan
Robert C. Gard
Robert Goodrich
Tamara Green
Erik Gustke
Bobby Johnson, Jr.
Saju Joy
Thomas F. Laney, Jr.
Harry Lightfoot, Jr.
Kevin J. Logel
William Mills
Sanjib Mohanty
Alden Parsons
Stephen F. Parsons
Beth Renzulli
L. Allison Shivers
Graham E. Snyder
Arleen Song
Elizabeth A. Steele
Knox R. Tate
Anne-Marie Turnier
Harrison Tuttle
Eric Winer
Erica Wolff
Mark Wood

Alumni Notes

50s

George T. Wolff, MD Housestaff '52-'53, reports the 5th annual George T. Wolff Primary Care Symposium is scheduled for November 5, 1999, at Moses Cone Hospital in Greensboro. Wolff can be reached at gwolff1049@aol.com.

60s

J. Lewis Sigmon Jr., MD '66, is director of Carolinas Medical Center's Rural Residency Program in Family Practice, Monroe, NC. He was elected vice president, American Board of Family Practice, Inc., Lexington, Ky.; and is ABFP representative to the Residency Review Committee for Family Practice, Chicago. Contact him at fmcsigmn@juno.com.

70s

William Duane Snider, MD '77, has joined the UNC School of Medicine as director of the Neuroscience Center. Snider was formerly professor of neurology and neurobiology at the Washington University School of Medicine in St. Louis. His research focuses on neuronal growth factors and their potential as treatments for neurodegenerative diseases and neural regeneration. Snider succeeds Kunihiko Suzuki, MD, professor of neurology and psychiatry, who will continue to be an active Neuroscience Center scientist.

Snider earned a B.S. in mathematics from UNC, Phi Beta Kappa, in 1971. He was a neurobiology predoctoral fellow at UNC from 1974-75, and a postdoctoral fellow from 1978-79. His internal medicine internship was completed at Beth Israel Hospital in Boston (1979-80), and his neurology residency at New York Hospital/Cornell Medical Center in New York City (1980-93). Snider also was a postdoctoral fellow in Washington University's department of physiology and biophysics from 1983-1985.

James T. Frakes, MD, Housestaff '78-'80, a clinical professor of medicine at the University of Illinois College of Medicine at Rockford, was named president of the American Society for Gastrointestinal Endoscopy in May at the society's annual meeting in Orlando. Frakes also serves as director of the Digestive Disease Unit at OSF Saint Anthony Medical Center in Rockford, and is managing partner of Rockford Gastroenterology Associates, Ltd. He is a recognized international expert in the fields of therapeutic pancreaticobiliary endoscopy, practice management and health care policy issues, and endoscopic ambulatory surgery centers.

Frakes has been the recipient of many awards, including the Faculty Distinguished Teaching Award, the Faculty Distinguished Service Award and the Distinguished Alumnus Award from the University of Illinois College of Medicine at Rockford. He was also included in "Best Doctors in America."

The ASGE represents more than 7,000 digestive disease physician specialists in the United States and 55 foreign countries who utilize endoscopy for the diagnosis, treatment and research of gastrointestinal disease.

90s

Angela R. Scott, MD '90, and Walter W. Scott, MD, Housestaff '99, have moved to Salt Lake City for Walter's fellowship in cardiothoracic surgery at the University of Utah. Angela will be practicing ophthalmology part-time at the university. Will, 2 1/2, and Leah, 1, are also doing well. The Scotts email address is wwsmd@mindspring.com.

Ann Johnson, MD '91, is a family physician in University Park, Md. She and her husband, Robert Sprinkle, announce the birth of their second child, Andrew Leland Sprinkle. Contact Johnson at arjmd@macconnect.com.

Margaret Weeks, MD '91, and Fred Weeks, MD '91, are living in Vero Beach, Fla., and starting practices in radiology and oncology, respectively. Margaret completed a fellowship in interventional radiology in June 1999. They have two children, Kate, 6, and Ben, 2.

Brian Go, MD, Housestaff '92-'95, joined Raleigh Cardiology Associates in July 1999. He can be reached at briango@pol.net.

Waldon Garriss, MD '93, has completed a general medicine fellowship at the University of Virginia and has joined Vanderbilt University Medical Center as an assistant professor of internal medicine and pediatrics. Contact him at waldon.garriss@mcmail.vanderbilt.edu.

Michael Applegate, MD '95, finished a residency in neurology at Wake Forest University Medical Center and began private practice with Johnson Neurological Clinic in Asheboro, NC. His son, Matthew Dale Applegate, born Dec. 22, 1998, joins Applegate's three other children, Dan, 11, Kevin, 8, and Beth, 6. His email address is mapplega@asheboro.com.

Alan Wade Story, MD '96, finished a family practice residency in Greenville, SC, in June. He has joined Newton Family Physicians, PA, in Newton, NC. He and his wife, Charlotte, have a son, Jarett Alan, born May 4, 1999.

Susan Yeyeodu, PhD '97, is working with Matt Ewend in UNC's Division of Neurosurgery on developing a dedritic cell vaccine for brain tumor patients and using gene therapy which targets NFKB to improve efficacy of chemotherapy and radiation. She has three children, Grace Ayodele, 5, David Ayokunle, 3, and Charity Ayokunme, 1.

President's Letter

It is a pleasure to greet you as the new president of our alumni association. Watching Jim Hundley handle the helm last year was a real treat. His master's touch will be difficult to emulate. When Bill Easterling '56 offered me this opportunity, he failed to mention that he was retiring. Fortunately, Bud Harper '60 succeeds Bill as Associate Dean for Medical Alumni Affairs and Jane McNeer and Stephanie Stadler are still on hand so the transition should be smooth.

Those of you who support the Loyalty Fund can take pride in the fact that you helped achieve records during the past fiscal year in both numbers of gifts and dollars raised. My hat is off to John Foust as National Chair of the Loyalty Fund. The Loyalty Fund is an invaluable resource for student support through scholarships, health sciences library support and endowment fund contributions.

The endowment funds important student and house staff research projects, and an endowed teaching professorship has been established and activated with Robert Bashford '70 as the first recipient. This is an opportunity to recognize faculty members who are dedicated to medical students' education.

A second professorship is being funded through current gifts to the Loyalty Fund. These are just a few of the many good reasons to make your Loyalty fund gift today!

Alumni input also can influence medical school policy. For example, a committee of association leaders recently shared ideas that helped define a revised admissions procedure, which incorporates recognition of legacies as well as competes for the most qualified applicants by offering Loyalty Fund alumni scholarships as recruitment incentives. If you have particular concerns your voice can be heard and can make a difference.

Please plan to join us for the Fall Medical Alumni Weekend October 15-16. Enjoy a weekend with old friends and watch the Tar Heels beat Houston. You'll be glad that you made the effort.

Gordon B LeGrand

Gordon B. LeGrand, MD '65

CME/Alumni Calendar

September 30 – October 3, 1999 – Pinehurst
35th Annual Robert A. Ross Society Meeting

October 8-10, 1999 – Chapel Hill
Business Financial Management for Physicians

October 14-15, 1999 – Chapel Hill
Fall Medical Alumni Weekend

October 23, 1999 – Chapel Hill
Blood Disorders and Cancer in Childhood and Adolescence

October 29, 1999 – Chapel Hill
Domestic Violence Conference

November 4-5, 1999 – Clemmons
Substance Abuse Conference

November 6, 1999 – Chapel Hill
Sexual Dysfunction

December 3-4, 1999 – Chapel Hill
New Developments in Vascular Surgery: 9th Annual Conference

January 13-14, 2000 – Chapel Hill
Challenges in Geriatric Practice: 11th Annual Conference

February 9-11, 2000 – Chapel Hill
TEACCH Winter Inservice

March 2000 – Chapel Hill
Herbal Medicine Conference

For more information about CME courses, contact the Office of Continuing Medical Education, (919) 962-2118, or toll-free through the Consultation Center, (800) 862-6264. To contact the Alumni Affairs office, call (919) 962-6786 or e-mail medical_alumni@med.unc.edu.

Estate Planning Notice

Many individuals would like to make a major gift to the UNC medical center, but cannot commit current assets for such a purpose. Through a will, however, anyone can make a more significant gift than they might ever have thought possible by designating a specific sum, a percentage, or the residue of their estate for the benefit of the medical center.

To provide a bequest, simply include a paragraph in your will naming The Medical Foundation of North Carolina, Inc. as a beneficiary. For example:

"I give, devise and bequeath (the sum of $_____) or (_____ % of my estate) or (the residue of my estate) to The Medical Foundation of North Carolina, Inc., a 501(C)(3) created to maintain funds for the UNC medical center with principal offices located at 880 Airport Road, Chapel Hill, North Carolina."

This language creates an unrestricted bequest for use by the medical center when and where the need is greatest, or you may specify that your gift be used for a particular purpose.

For further information on bequests, contact Jane McNeer at (919) 966-1201, (800) 962-2543, or jmcneer@email.unc.edu.

Nonprofit Organization
U.S. Postage
PAID
Chapel Hill, NC
Permit No. 24

PERIODICALS DEPARTMENT
HEALTH SCIENCES LIBRARY
CB 7585
CAROLINA CAMPUS 7585

Fall 1999

Medical Alumni BULLETIN

School of Medicine, University of North Carolina at Chapel Hill

Some Enchanted Evening

October 9, 1999

Call to Dinner
Hill Ballroom
Joanna Henderson
UNC Violinists
Triangle Youth

Welcome
Hill Ballroom
The UNC Clefhangers
Dr. David Rendleman

Dinner
Hill Ballroom

pm

Video Premier
Hill Ballroom
Mr. James L. Copeland

pm

10 pm

Call to Dessert
Tent in Anne Hill Courtyard
Joanna Henderson and Ginger Neff

UNIVERSITY OF NORTH CAROL
DEC - 8 1999
HEALTH SCIENCES LIBRARY

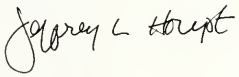
Dean's Page

A year ago, William Roper, MD, dean of the School of Public Health, and I created the Population-Based Research Advisory Committee, a joint advisory committee representing faculty interested in "population-based research."

The committee was charged with identifying areas of topical focus and the infrastructural supports needed to foster and strengthen such research. David Savitz, PhD, professor and chair of the department of epidemiology, and Gordon DeFriese, PhD, director of the Cecil G. Sheps Center for Health Services Research and professor of social medicine, were asked to co-chair it.

During several meetings and a day-long retreat, the committee examined what population-based research already was taking place and identified aspects needing more support.

I've asked Gordon and David to describe population-based research and current and future programs.



Jeffrey L. Houpt, MD
Dean, School of Medicine

As the committee defined it, population-based research focuses on health or health care issues within defined human groups identified by geography, sociodemographic characteristics or common affiliation with one or more specific health services providers. It seeks to discover and describe health and health care phenomena associated with these populations, focusing on their variations. The research most often is conducted by multidisciplinary teams of investigators who bring broad understanding to describing and analyzing complex problems and issues related to health and health care needs.

Deans Houpt and Roper asked the committee to offer recommendations for making population-based research a key element in UNC's effort to become one of the leading health-research institutions in the country. Many institutions have focused on advancing basic sciences, especially genetics; competing nationally with such well-established programs will be difficult other than by focusing on narrow specialty areas. Far fewer institutions have tried to integrate basic sciences with clinical and population research; the few that do have found it difficult to transcend traditional disciplinary boundaries and cultural gaps.

The committee has proposed developing a new model for health research at UNC that directly integrates clinical and public health approaches with basic sciences in areas where we're already strong.

Specifically, developing leading programs in genetics, infectious disease and cardiovascular disease has much greater promise of success if the clinical, epidemiological, health services and public health aspects are fundamentally part of research activities.

We have a strength in population-based research in these areas — and others — that few other institutions can claim. Also, compared to our competitors, we have a much stronger tradition of collaboration across schools and disciplines. As an institution that receives state support, UNC has a special obligation to help translate basic biomedical discoveries into improved patient care and advancements in the health of the population of North Carolina and beyond.

Elevating research programs to positions of national leadership would be markedly enhanced by a true and complete integration of basic, clinical and public health approaches. The Lineberger Comprehensive Cancer Center offers a successful model of this; plans for the UNC Center for HIV/STDs and Infectious Disease are based on a collaboration of the Division of Infectious Disease in the departments of medicine, microbiology and immunology, and epidemiology.

In these and other areas, there are several important linkages: one integrates basic sciences with epidemiologic applications to the study of disease etiology and progression; the other integrates across the spectrum of clinical applications, health services and public health interventions.

Undoubtedly, there are other opportunities for excellence being missed through the failure to integrate population-based research approaches. The guidance and encouragement of the Research Advisory Committee could help ensure that such opportunities are recognized and pursued.

An analysis of all funded research activities involving School of Medicine faculty revealed that more than one-fourth could be classified as population-based. Efforts to strengthen population-based research are, therefore, relevant to the overall research enterprise in the School of Medicine.

The committee has recommended that decisions regarding investment in population-based research be integrated with — not isolated from — investment in other research approaches. The question is how developing such activities could extend the opportunities for excellence in genetics, infectious disease and cardiovascular disease that the Research Advisory Committee identifies for development.

As a strong step toward strengthening its position in these fields, UNC needs a shared

longitudinal study population that would benefit multiple programs, directly analogous to core laboratory facilities that serve multiple projects and offer greater efficiency in time and cost. With such a population base for research, UNC researchers in multiple disciplines could integrate information on biological markers, including genetics, with a range of lifestyle factors, as well as examine clinical applications and health care in specific community settings. Development of such populations as a shared resource, whether defined by geography, health service provider or volunteers, would help address questions about disease etiology and health care, and also offer opportunities for intervention studies.

UNC has many great infrastructural and faculty strengths when it comes to population-based research, including:

- boasting five excellent health science schools and the collaborative environment created therein;
- recent funding successes among faculty seeking support for this type of work;
- effective working relationships established with clinical practitioners and organized practice settings throughout North Carolina for purposes of population-based health research;
- a strong and capable Survey Research Unit within the department of biostatistics; and
- considerable depth in multiple disciplines related to population-based health research, particularly in the social sciences, epidemiology, biostatistics and clinical evaluation science. Few universities in the world have more depth in these disciplines.

With these strengths and capabilities, and the support of the two deans of medicine and public health, a new era is about to begin where population-based research will represent yet another area of health and medical care research at which UNC will excel.

Medical Alumni BULLETIN

School of Medicine, University of North Carolina at Chapel Hill

Medical Alumni Association Officers

President
Gordon B. LeGrand, MD '65
Raleigh

President-Elect
Paul E. Viser, MD '84
Clinton

Vice President
Thomas J. Koontz, MD '66
Winston-Salem

Secretary
Ralph L. Wall Jr., MD '78
Winston-Salem

Treasurer
William M. Herndon, Jr., MD '81
Charlotte

Editorial Staff

John W. Stokes
Vice President, Public Affairs & Marketing

Debra Pierce
Managing Editor

Dick Broom, Dawn Gerakaris, Katherine Kopp, Leslie H. Lang, Melissa Matson, Lynn Wooten
Contributing Writers

Dan Crawford (pgs. 22, 25, 26, 29, 30, 31)
Jay Mangum (pgs. 6, 7, 10)
Don MacKenzie (pg. 5)
Photographers

The *Medical Alumni Bulletin* is published four times annually by the UNC-Chapel Hill Medical Alumni Association, Chapel Hill, NC 27514. Postage is paid by the non-profit association through U.S. Postal Permit No. 24. Address correspondence to the editor, Office of Medical Center Public Affairs, School of Medicine, CB#7600, University of North Carolina, Chapel Hill, NC 27514.

Contents

Features

Smiles Galore 5

Changing the Face of the Medical School 6

Alumni Profile: George William Bates, MD '65 8

When Opportunity Knocks 10

A Family Honors Its UNC Heritage Through Scholarship 12

Some Enchanted Evening: Medical Foundation Celebrates 50 Years 14

Fuller Award: Paul Biggers, MD 18

Classroom Know-How Improves Teen's Life 19

Report to Donors 21

Departments

Dean's Page ..... Inside Front Cover

News Briefs 2

Research Briefs 4

Faculty Notes 17

Development Notes 20

Alumni Notes 16

President's Letter 32

CME/Alumni Calendar ..... Back Cover

On the Cover: The Medical Foundation of North Carolina, Inc. celebrated its 50th year with an evening event at the Carolina Inn in Chapel Hill. Some of the invited guests included (clockwise, top right) Ann and John Foust, MD, '55; Bill Rand, left, and Interim Chancellor Bill McCoy; and (bottom left) Jeffrey L. Houpt, MD, dean of the School of Medicine, UNC President Molly Broad, and McCoy. *Photos by Jay Mangum.*

News Briefs

UNC wins $42.1 million federal contract to study drugs for schizophrenia and Alzheimer's

UNC has been awarded a $42.1 million federal contract to determine the effectiveness and safety of a new class of anti-psychotic drugs for treating people with schizophrenia and those with psychotic and disruptive behaviors associated with Alzheimer's disease.

The contract, announced in October by the National Institute of Mental Health (NIMH), is the largest ever awarded by the federal agency. It places the university in charge of a multi-center, five-year effort aimed at definitively determining the value of the new class of atypical anti-psychotic drugs represented by clozapine, risperidone, olanzapine and quetiapine.

"This research will make an unparalleled contribution to defining the clinical role of the new anti-psychotics," said Steven E. Hyman, MD, director of the NIMH. "It will provide reliable data on the efficacy of these atypical medications in relieving psychotic symptoms of schizophrenia and Alzheimer's disease, and will gauge their effectiveness in terms of broader outcomes — such as adherence to treatment, ability to work, social functioning and quality of life."

Now on the market, these drugs are proven effective in carefully controlled clinical studies typically co-sponsored by drug companies. The drugs differ from other anti-psychotic agents in that they act on multiple cell receptor sites in the brain, including receptors for dopamine, serotonin and norepinephrine, instead of just dopamine.

Jeffrey A. Lieberman, MD, professor of psychiatry, pharmacology and radiology, and C. E. Davis, MD, professor and chair of biostatistics at the School of Public Health, are the project's co-principal investigators. Over the next five years, they and their study colleagues will enroll 1,000 patients with schizophrenia and 400 to 500 Alzheimer's patients.

Cancer Institute to support statewide colon cancer study

The National Cancer Institute has awarded $1.5 million to UNC researchers trying to prevent and provide earlier detection of colon cancer. The grant was one of six given nationally to research groups studying health communication and cancer control.

"We're looking at how best to communicate with people about colon cancer so that they will adopt healthier lifestyles by improving their diets, increasing their exercise and seeking regular medical screening," said Marci K. Campbell, PhD, assistant professor of nutrition. "Research has shown that better diets and exercise may lower the risk of colon cancer and regular screening can save lives."

Campbell said the project will examine strategies for persuading both colon cancer survivors and others not yet affected to change their behaviors. She is joined by Robert Sandler, MD, professor of medicine and co-principal investigator, and others from the schools of medicine and public health.

Read more at http://www.unc.edu/news/newsserv/research/nci081199.htm.

AIDS vaccine researchers awarded $12 million federal grant

Scientists at UNC have won a five-year federal grant totaling more than $12 million to develop a safe and effective vaccine against HIV, the virus that causes AIDS.

The grant from the National Institute of Allergy and Infectious Diseases, Division of AIDS, is one of only three large HIV vaccine research and design grants awarded by the agency this year.

During the next five years, a team led by Robert E. Johnston, PhD, professor of microbiology and immunology, will use the money to study a novel vaccine method that is showing promise in early tests on monkeys.

UNC Health Care part of new national program to improve care for children

With $800,000 in grant money allotted this year — and more to come — UNC pediatricians will participate in a new national program to assist primary care practices across the state in improving children's health.

In a break from traditional forms of continuing medical education, the National Initiative for Children's Healthcare Quality is being established to improve the quality of ambulatory care for children. A five-year, $6.5-million grant from the David and Lucille Packard Foundation makes this program possible.

"About two years ago, the Packard Foundation challenged a group of pediatric outcomes researchers from around the country to consider how they could collaborate in their work to help practices improve care so the scope of efforts could be increased," said Peter Margolis, MD, associate professor of pediatrics and epidemiology. "Our group had been working together with a number of area primary care practices in North Carolina on this issue over the years, so we were pleased to participate."

Read more at http://www.unc.edu/news/newsserv/univ/pediatrc92099.htm.

UNC unveils novel approach to pain management

UNC Hospitals has implemented a unique method for controlling pain associated with surgery, wounds and injuries. The new treatment, known as On-Q, could revolutionize pain management, physicians say.

"I must admit that I was skeptical when I first was introduced to this system. But after I used it on a dozen or more of my patients that have undergone abdominal surgery, I was quite impressed," said Mark Koruda, MD, a gastrointestinal surgeon and one of the first surgeons in the region to use this pain management system.

On-Q delivers pain medication directly to the site of the wound from a small infusion pump worn by the patient. The system makes oral ingestion of narcotic painkillers unnecessary. It is a new product developed by Ethicon Endo-Surgery Inc., a Johnson & Johnson company that works closely with UNC's abdominal surgery program.

Whitehead lecturer says opportunities abound

B. Anthony Lindsey, MD, associate professor of psychiatry and associate chair for clinical affairs, delivered the 37th Whitehead Lecture, titled "What an Opportunity" on August 18. Given annually to incoming medical students, the speech marks the beginning of the academic year.

Awards presented at the event included:

- the Hyman L. Battle Excellence in Teaching Award in the Basic Sciences given to D. Lee McIlwain, MD, professor of cell and molecular physiology;
- the Hyman L. Battle Excellence in Teaching Award in the Clinical Sciences given to Michael J. McMahon, MD, MPH, assistant professor of obstetrics and gynecology;
- the Freshman Basic Science Teaching Award given to D. Lee McIlwain, MD, professor of cell and molecular physiology;
- the Sophomore Basic Science Teaching Award given to Barry S. Pallotta, PhD, associate professor of pharmacology;
- the Kaiser Permanente Excellence in Teaching Award given to Edmund J. Rutherford, MD, associate professor of surgery, and Barry S. Pallotta, PhD, associate professor of pharmacology;
- the Central Carolina Bank Excellence in Teaching Award given to Phil Cohen, MD, professor of medicine;
- the Outstanding AHEC Faculty Award given to Ola Akintemi, MD, Greensboro AHEC, and to Charles Baker, MD, Mountain AHEC; and,
- the Best Clinical Clerkship given to the Department of Pediatric's Roberta Williams, MD, chair, Harvey Hamrick, MD, director, and Sherri Davis, coordinator.

The day after cataract surgery, young Herzben Traquena can see the opthalmoscope that Cohen holds out to him.

The Gift of Sight

UNC ophthalmologist operates on 14-month old Filipino boy

Ken Cohen, MD, visited the Philippines this summer. And because he went, Herzben Traquena can see.

In late June, Cohen, professor of ophthalmology, four other doctors, a nurse, and six volunteers from around the country, traveled to Virac, a city in the Catanduanes province of the Philippines.

The group's trip was coordinated by Physicians for Peace, a non-political organization which sends volunteer medical teams to some of the world's neediest areas. Virac fits the bill, as it is one of the poorest areas in the Philippines and has little in the way of medical care.

This trip marked the first time Physicians for Peace has offered ophthalmologic services. "Since this had never been done before, we had to get instruments, drugs and other supplies donated and take them down there with us," said Cohen. "We also arranged for a special machine needed for cataract surgery to be shipped in from Manila."

During his time there, Cohen operated on 30 Filippinos. The most dramatic case was that of the 14-month old boy. "Herzben was stone blind," said Cohen. "He had bilateral, congenital cataracts. When you looked at his pupils, they were white.

"I was reluctant to operate on him because of the risks involved with follow-up care for children. But I decided to go ahead because his mother could care for him, and he had a chance of gaining enough vision to take care of himself."

Cohen performed the surgery in a makeshift operating room. "The conditions were not the greatest," he said. "We had to reuse gloves, sutures, blades, you name it."

But the operation was a success. The day after the surgery, the little boy could follow the movement of his mother's fingers in front of his face. And, Cohen reports he continues to improve. "I just got a letter from the local ophthalmologist who said the child is doing well."

Cohen said his first trip with Physicians for Peace did much to bring him back to reality. "You lose sight of basic medical needs when you work in a big institution with the latest and greatest. I was able to truly help those people, to make a difference in their lives."

Note: Cohen's trip was sponsored by Walter Davis, a retired businessman and strong supporter of UNC. Davis and his wife, JoAnn, serve on the Physicians for Peace Board of Directors.

Research Briefs

Key mechanism in cancer and rheumatoid arthritis identified

A UNC study has identified a novel molecular mechanism in cell proliferation.

The study published Sept. 2 in the journal *Nature* shows that a molecular switch, known as transcription factor NF-kappaB, plays a pivotal role in the regulation of cell growth and death. The findings shed new light on tumor development.

"Signaling pathways regulating cell growth and death are intrinsically linked to each other. Proliferating cells die unless specific growth factors are present. This provides a built-in protection against cancer. When this protection fails, cell proliferation runs out of control," said Sergei S. Makarov, PhD, research assistant professor of medicine and member of the Thurston Arthritis Research Center. "Because of that, it is important to understand the molecular mechanisms that control cell death and proliferation."

Read more at http://www.unc.edu/news/newsserv/research/makarov083199.htm.

UNC nutrition expert says nation should regulate some diet supplements

In 1996, U.S. consumers spent more than $6.5 billion on dietary supplements. By last year, the market had almost doubled to $12 billion and is projected to increase to more than $14 billion in the year 2000. Unlike drugs, the compounds are mostly unregulated.

With so much interest in supplements and so many Americans consuming them, the federal government needs to protect the public by creating a special supplement category known as "nutraceuticals" and requiring that they be proven safe before they're sold.

That's the view of Steven H. Zeisel, PhD, professor and chair of nutrition. Zeisel, who says the idea that dietary supplements are natural and therefore must be safe is false, made his remarks in the Sept. 17 issue of the journal *Science*.

Read more at http://www.unc.edu/ news/newsserv/research/zeiselop091599.htm.

Antibody solution may prevent adhesions after surgery

Adhesions following gynecologic and abdominal surgery can be prevented by applying a special antibody solution at the end of the operation, according to new research conducted at UNC.

The solution works by neutralizing "sticky" molecules called alpha-v/beta-3 integrins, one member of a ubiquitous family of membrane glycoproteins involved in embryonic development, blood vessel formation, the immune system and wound healing.

"As gynecologists, we're always concerned about post-surgical adhesions," said Bruce Lessey, MD, associate professor of obstetrics and gynecology and a specialist in reproductive endocrinology and infertility. "Adhesion formation is a frequent complication of this type of surgery and may result in infertility, ectopic pregnancy, chronic pain, prolonged recovery and intestinal obstruction."

Lessey discussed his findings during a presentation to the American Society for Reproductive Medicine in Toronto, Canada.

Read more at http://www.unc.edu/news/newsserv/research/lessey092799.htm.

Fruit flies may help scientists understand colon cancer development

A study of fruit flies by UNC scientists may yield new clues to human colon cancer development.

A report of the study, the cover story for the Sept. 20 issue of the *Journal of Cell Biology*, focuses on the tumor suppressor protein adenomatous polyposis coli, or APC. Originally identified in people with familial colon cancer, APC mutations are found in a majority of colon tumors.

APC plays an important role within cells to help destroy another protein, beta catenin, according to senior study author Mark Peifer, PhD, associate professor of biology and a member of the UNC Lineberger Comprehensive Cancer Center. His research confirms that in fruit flies (Drosophila), it functions against a very similar protein, Armadillo.

Read more at http://www.unc.edu/news/newsserv/univ/fruitfly92099.htm

Researchers hope to find early warning signs of schizophrenia

A new initiative is now underway at UNC to identify and develop possible treatments for people at high risk for schizophrenia. Scientists hope their study will reveal factors that may cause schizophrenia and lead to new strategies to prevent schizophrenia in vulnerable people.

The UNC PRIME Research Clinic (Prevention through Risk Identification, Management and Education) targets adolescents and young adults experiencing basic symptoms of schizophrenia. The program's goal is to help individuals cope with those symptoms so they can continue to lead normal lives.

The researchers will evaluate risk factors that may predict who will develop psychosis. By unveiling identification markers that could predict schizophrenia, researchers could eventually develop a screening strategy for the general population that would help identify people at high risk for schizophrenia before symptoms emerge.

Read more at http://www.unc.edu/news/newsserv/research/prime090199.htm.

Smiles Galore

Thanks to a UNC plastic surgeon, Julian Lopez has a reason to smile.

The 8-year-old underwent nerve transfer surgery to correct facial nerve paralysis and restore movement in his face.

Lopez was born with congenital facial paralysis. His mother, Deborah Losoya, said doctors noticed the problem in the delivery room.

"I noticed it, too. One side of his face didn't move when he cried," said Losoya.

Doctors ordered an MRI, which showed that Lopez's right-side facial nerve had not developed.

His appearance was similar to that of a stroke patient and he encountered many of the same challenges — problems chewing and drinking, the inability to fully close his eye and difficulty with speech. Though he received speech and occupational therapy and participated in sports, he could not avoid ridicule from kids and adults.

Julian Lopez of Fayetteville, NC

"Julian started to withdraw. He would bow his head to hide his face," said his mother. "More than anything, he just wanted to be able to smile."

Such sensitivity is common, said Kim Uhrich, clinical social worker at the UNC Craniofacial Center.

"Children recognize the difference between pretty and unattractive around age 4. By age 8, it reaches its pinnacle," Uhrich said.

"I tell parents if they start to see changes in their child's behavior, we need to pull out all the stops and see if anything can be done."

In May 1997, Losoya and her son met with Gerald Sloan, MD, medical director of the UNC Craniofacial Center and chief of the division of plastic surgery to discuss options.

"What bothered Julian most was his smile," Sloan said. "Fortunately, he was not experiencing any other complications."

Sloan recommended a nerve graft to correct the paralysis, but cautioned that the success rate was only 25 percent. The family took the chance.

During the eight-hour surgery, Sloan removed the sensory nerve from the back of Lopez's calf, attached it to functioning nerve branches in his left cheek and channeled it across Lopez's upper lip and chin to the right side of his face.

The final step: wait and see whether the nerve would regenerate and restore feeling and movement to Lopez's face.

"We were not sure what kind of return, if any, we were going to get, or how long we were going to have to wait," Uhrich said.

Some six months after the surgery, Losoya saw the first signs that it had been a success. "I started noticing a slight motion when he smiled and his eye was closing better," she said. "But I did not want to get his hopes up until we were sure it had worked."

During one of the routine Tinel-sign tests, in which Losoya would tap Lopez's face with her fingers to create a tingling sensation, she got her confirmation.

Losoya explained: "Dr. Sloan said if Julian felt 'pins and needles' in his face, then that would indicate that the nerve was growing. One day during the test, Julian said he felt a little bit of 'electricity' in his cheek and a lot above his lip."

They called Uhrich with the good news. A follow-up appointment with Sloan confirmed that Lopez's surgery was indeed a success — so much so that he would not need a second operation. Today, Lopez continues to improve. □

Changing the Face of the Medical School

New executive associate dean recruits new faculty, promotes research

Eugene P. Orringer, MD, Executive Associate Dean for Faculty Affairs

By Lynn Wooten

Eugene P. Orringer, MD, says he is, by nature, a very competitive person. He recalls some hard-fought tennis matches with his daughters.

"I always said that for one of them to win, they would have to beat me fair and square. They understood that I would never simply let them win. Initially, I was able to win our matches handily. Then I would have to fight tooth and nail. Finally, when my oldest daughter, Lisa, beat me for the very first time, it was a big deal between us. Soon thereafter, she beat me just about all of the time. Still, I never gave up."

This competitive streak should prove useful in Orringer's new position as executive associate dean for faculty affairs. In this capacity, he is the point man for the recruitment of new senior faculty members, as well as the retention, promotion and tenure of existing ones. He also plays an important role in the school's research programs, particularly those that involve clinical and transnational research.

"I honestly believe that with my responsibilities in this new position, I have an opportunity to change the face of the school for years to come," he says.

Colleagues believe Orringer has what it takes to get the job done.

"Gene has great energy and is committed to excellence," says Jeffrey L. Houpt, MD, dean of the School of Medicine. "He's prepared to make sacrifices himself to accomplish a goal and is in turn able to convince others to make that same sacrifice to accomplish institutional goals. He also has great integrity," says Houpt.

"First and foremost, Gene's major strengths include his sincere love of what he does," says Andrew Greganti, MD, professor and associate chair for administration in the department of medicine. "He has a high level of positive energy and enthusiasm that is infectious. He is clearly committed to maintaining and enhancing the academic excellence and scholarship of our institution's research, teaching and clinical care programs. Gene's work is a critical force in balancing the many complicated demands of academic medical center environment."

Orringer helps oversee a medical school

staff of more than 900 faculty members — a remarkable figure when one considers there are only 2,500 faculty members for the entire university. "The school of medicine is, by far, the largest school in the University," Orringer points out.

And it's a school at a crossroads.

Last year, the N.C. legislature established the UNC Health Care System, a move that brought the School of Medicine and UNC Hospitals together, established an integrated governance structure and increased management flexibility. Houpt was named chief executive officer, and Eric B. Munson was named president of UNC Hospitals.

Since its establishment a year ago, UNC Health Care has grown substantially. Soon after the system was approved, Houpt created a new organizational chart for the School of Medicine. That's how Orringer's new role evolved.

Orringer believes the medical school is particularly attractive these days to potential recruits.

"There are a number of issues that make this a very positive time for the recruitment of new department chairs and center directors," he says. "Each new recruit will join a growing cadre of new leaders who, together, will direct the School of Medicine as we enter the 21st century," Orringer adds.

He cites "UNC's strong financial standing, particularly when it is compared to many other academic medical centers," and calls Houpt "an excellent person to work for. He understands the various issues that we are facing today. He has vision and a broad perspective, yet he doesn't micro-manage."

Finally, the physical resources of the School of Medicine "will be much better in the next two or three years," says Orringer. "Two new research buildings are already under construction, and a large new medical office building has already been designed. It's a very exciting time, indeed."

One key position that Orringer is trying to fill is chair of the department of medicine. After 10 years, Fred Sparling, MD, stepped down August 1, and Greganti assumed the role on an interim basis.

"While it is not essential that the successful candidate be an active investigator, it's essential that we find an individual who is fully cognizant of what it takes to develop and run a successful research program," Orringer says. "In addition, the chair must also understand all aspects of the clinical enterprise. In today's managed care environment, clinical department chairs must negotiate contracts and assure the quality of care that is provided by their faculty."

Research is another important facet of Orringer's job, one that uses his unique background to best advantage.

> *"Gene has great energy and is committed to excellence."*
>
> Jeffrey L. Houpt, MD

Orringer earned his medical degree at the University of Pittsburgh and then moved to UNC, where he completed his internship and residency in internal medicine and a postdoctoral fellowship in hematology.

Since joining the UNC faculty in 1975, Orringer has held a variety of positions and responsibilities. In 1981, he established the UNC Comprehensive Sickle Cell Program, and in 1986, he forged the linkages that resulted in the creation of the Duke-UNC Comprehensive Sickle Cell Center. In 1989, he assumed the directorship of the General Clinical Research Center, a position he held until last September. Since 1995, he has directed the UNC MD-PhD Program. In each position, he has generated national recognition and obtained substantial National Institutes of Health grant support for the program.

"His past experience as a productive researcher, a clinician and a capable administrator provides a depth of insight that few can offer," Greganti says.

"I believe I can take advantage of this position to broaden the research opportunities at the school," Orringer says. "I am particularly committed to the creation of large research programs and helping investigators from multiple departments, schools and institutions to prepare large grant proposals."

Another key facet of Orringer's job is working with junior faculty members, so that he can understand their career objectives and help them establish career paths.

"Over the last 10 years, UNC, like most other medical schools, has seen a substantial decrease in the number of junior faculty members who are committed to research careers. Much of this relates to concerns regarding the availability of research funding," he says.

"With the NIH now funding more research programs, there is a greater chance of getting federal funding these days. And there is a particular commitment on the part of the NIH to train young people whose career goals involve clinical investigations. UNC was recently awarded a K-30 grant from the NIH, the purpose of which is to help young people embark on a career in clinical research. I am absolutely committed to helping to identify the initial grant support for young people, and then setting them off on a career path that is appropriate to their goals," he says.

"Gene's major goal, at least in my view, is to assure that UNC maintains its position as an outstanding academic medical center known for its scholarship and research productivity," says Greganti. "His success will require that he assist the dean in recruiting key departmental chairpersons, developing creative plans for maximizing the quality of our current research and clinical programs, and spearheading efforts to assure our future in both the research and clinical arenas." □

On the Road Again

Bill and Susanne Bates in Athens, Greece — leisure travel is a favorite pastime.

By Katherine Kopp

It took Bill Bates a lifetime to get from Derita, N.C. to Nashville, Tenn. — you might say he took the scenic route.

George William Bates, MD '65, is a native of Derita, a small community in Mecklenburg County that now has been all but swallowed by metropolitan Charlotte.

"Back then, we walked across the railroad tracks, down a gully and through a big field to get to Bill's house for our Cub Scout meetings," recalls Seymour Robinson, a childhood friend of Bates' who now is the administrator of First Presbyterian Church in Charlotte. "We could have gotten there by the road, but it was more fun to walk through the field."

According to Robinson and another long-time friend, Chapel Hill attorney D.G. Martin, Bates' drive to succeed was apparent from a young age.

"William was talented in many ways and a great athlete, and everyone at North Mecklenburg High School wanted him to play football," Martin says. "But as I recall it, he decided that if he wanted to be a physician, he really couldn't take a chance [on injuring himself] by playing football. He already had a long-term perspective."

With his eyes fixed on the future, Bates came to UNC in 1958 as a Morehead Scholar, graduating with a bachelor's of science degree in 1962. He continued his academic career at the UNC School of Medicine, receiving his medical degree in 1965.

Then Bates' road trip really began. He moved from Chapel Hill to Birmingham, Ala., to complete a one-year internal medicine internship at the University of Alabama in 1966. From 1966 to 1970, he returned to live in Chapel Hill, this time working as a resident in obstetrics and gynecology. He married his wife, Susanne, during his last year of residency.

"Originally, I planned to practice in North Carolina after finishing my residency, but first I had a two-year Air Force commitment," he says. "Everybody had a two-year commitment back then."

He was commissioned as an officer in the

U.S. Air Force, attaining the rank of major and serving as chief of obstetrics and gynecology at Blytheville Air Force Base in Arkansas (1970-71) and at Clark Air Base in the Philippines (1971-72).

From there, Bates became one of the youngest chairs ever at the University of Tennessee at Knoxville. As chairman of the department of obstetrics and gynecology from 1972 to 1976, Bates raised standards, bringing the Ob/Gyn residency program to full accreditation from its previous probationary status. He also introduced fetal monitoring, colposcopy and operative laparoscopy to the University of Tennessee Hospital, as well as implementing academic Ob/Gyn grand rounds.

But after four years, Bates was ready for further education and another challenge.

In 1976, he and his family moved to Dallas for his two-year reproductive endocrinology fellowship at the University of Texas Health Science Center. He joined the faculty of the University of Mississippi in Jackson in 1978, establishing the first reproductive endocrinology program in the state. Bates further honed his business and management skills at Ole Miss, serving two terms as president of the faculty practice plan as it grew from $8 to $16 million in revenue in five years.

But once again, he got a little restless.

"I realized that my goal was to continue to advance in academics and I didn't feel I had the management experience I needed to be successful," he says.

Taking a sabbatical, Bates became an Alfred P. Sloan Fellow at the Massachusetts Institute of Technology School of Management in 1983. He earned his master's degree in business administration with an emphasis on health care administration in 1984, years before most physicians considered such a career move.

"There were just two other doctors in my class at MIT," he recalls. "Neither was an American. One was the French Ministry of Health, the other was from the World Health Organization."

With his MD and MBA degrees in hand, Bates became dean of the College of Medicine at the Medical University of South Carolina in Charleston in 1986. He again oversaw the restructuring of a faculty practice plan, increasing gross revenues from $17 million in 1986 to $30 million in 1993. He also filled five vacant department chairs and made a number of improvements to the medical school curriculum.

Then, in 1990, an old friend recruited Bates to a new challenge in Greenville, S.C.

"Basically, I was asked to revamp the graduate medical education program at the Greenville Hospital System," he explains. "We created a partnership, raising $10 million to do research at Clemson University in conjunction with the hospital. It was a big undertaking."

The Bates family hit the road to Tennessee once more in 1996.

"He's been all over the place," Robinson says. "Bill is not reluctant to plunge into new things, even when considerable risk is involved. I admire his imagination."

In Nashville, Bates became executive vice president and chief medical officer of PrincipalCare Inc., which at its peak, managed 17 Ob/Gyn practices in Alabama, Kentucky, Tennessee, Colorado and Ohio.

When PrincipalCare was acquired by MediSphere Health Partners in 1998, Bates left the company, but his family wanted to stay in Nashville. He approached Vanderbilt University, and was hired as vice president of Vanderbilt Health Services and clinical professor of obstetrics and gynecology.

He and his wife live in the suburb of Brentwood with their youngest son, Rob, 16. The couple has two other sons, Jonathan, 27, a Montessori teacher, and Jeff, 25, a filmmaker.

At the request of Vanderbilt University Medical Center, Bates took a leave of absence to serve as president and chief executive officer of Breathe America Inc. Breathe America, funded by Vanderbilt's venture capital fund, is a company of franchised medical clinics specializing in airway disease management.

"Universities have gotten into the technology transfer business, but not too much into the creation of new technologies and concepts," Bates says. "However, that's changing."

Whether Breathe America eventually will go public remains to be seen. There are just two clinics thus far, one in Nashville and one in Houston.

"What we're doing is providing a model of care for patients by setting up a clinic and establishing protocols which adhere to national guidelines," he says. "Then we work with the physicians on the medical management of their patients, information management, contract negotiation with area HMOs and other aspects of running the practice."

Bates believes that, in today's environment, all physicians can benefit from some basic grounding in business. But he was quick to add that he thinks experience, not the classroom, is the best teacher.

"You've got to have a good base in medicine before you go into the business side of things," he says. "I'm not in favor of young doctors getting an MBA without having much clinical experience." □

When Opportunity Knocks

By Leslie H. Lang

Myron S. Cohen, MD, frets not about life's uncertainties. The Division Chief of Infectious Diseases at UNC knows these are sometimes resolved by a confluence of unpredictable events. It's not that we're always passive recipients of sweet Fortuna; we just have to know when to show up.

That lesson, he would tell you with characteristic verve, first arrived in 1969, during undergraduate school at the University of Illinois, in Champagne-Urbana.

I was a scholarly kind of kid without a tremendous amount of direction regarding my future. Medical school? Never thought much about it until my best friend died of leukemia in my sophomore year. The issue of mortality hit home hard. During hospital visits to my friend, I found myself stimulated by the professional atmosphere. And that provoked an interest in medicine.

"And then another strange and wonderful event occurred. The premeds around me said it was impossible for somebody with my background to get into medical school. So when I heard that a med school dean was visiting our campus, I made an appointment to see him."

That person was Leo Henikoff, MD, thirty years old and the new Dean of Students at Rush Medical College in Chicago.

"I was only a second-semester sophomore who wanted to know what my chances for acceptance would be if I took premed courses starting right away," recalls Cohen. "I went in to see him not realizing that most of the other people who had appointments with him that day were interviewing for medical school.

"But to my amazement, Leo and I hit it off wonderfully! And through this single mystical meeting, he essentially invited me to go to medical school. I went to see him in Chicago and shortly thereafter got accepted. So, I ended up going to medical school in a way no one could have predicted," he says.

In Cohen's medical education and professional development, mentors figure prominently.

"These role models include Dr. Stuart Levin at Rush, the Director of Infectious Diseases and a gifted and charismatic physician. As a resident in Internal Medicine at Michigan, there was Dr. Robert Fekety, a wonderful clinician and larger than life person. And during a postdoctoral fellowship at Yale, there was Dr. Richard Root, who launched my career in infectious diseases, starting with studies on phagocyte biochemistry," he says. "If you look at infectious diseases, a very academic and rigorous discipline, you see people who are attracted to the field primarily by remarkable mentors and leaders."

As for Cohen, no doubt exists that he fits the mold of which he speaks. He inhabits his

Myron S. Cohen, MD, Division Chief of Infectious Diseases

professional role with ebullience and tremendous drive. Like his mentors, he shares the gift of scholarly gab. And like any proud papa, his volubility swings into high gear when the subject turns to the UNC Center for Infectious Diseases, anointed May 1, 1999.

"When I arrived in Chapel Hill some twenty years ago, there was a small group of people led by Drs. Fred Sparling and Joe Pagano. We had a consult service with five faculty, no outpatient clinic, no inpatient ward. Fred, whose gonorrhea research has galvanized vaccine development, was a mentor who helped shape my interest in sexually transmitted disease. The NIH STD Clinical Research Center, directed by Fred, is now in its third cycle of renewal.

"Today we have more than twenty clinical faculty; we've maintained our consult service but in addition we have an infectious disease ward and clinic, and we direct STD clinics in Wake and Durham counties, says Cohen. "We provide infectious disease services for the North Carolina prison system. We have an infectious diseases practice at First Health (Moore Regional) in Pinehurst, and research clinics in Beijing, China, and Lilongwe, Malawi, West Africa."

If Cohen's medical school career was launched in some measure by circumstances unforeseen, so too, has been the growth of UNC's infectious disease faculty community, now internationally recognized for its clinical and basic research programs.

The advent of AIDS and the rise in STDs provided important impetus. Almost overnight, public health issues loomed large. The rise in international travel and the notion of global village took on important health implications. Opportunities for new research arose.

Taking action came next.

"In reality, there are many opportunities for research and service. You've got to decide which ones to seize and how you're going to pursue them," Cohen asserts. "Our program evolved out of our willingness to go in new directions, such as international health. Our growth, of course, has been propelled by wonderful faculty leaders including Charlie Van der Horst, Ron Swanstrom, Peter Gilligan, Joe Eron, Susan Fiscus, Bob Johnston, Jeff Frelinger, Shannon Kenney, Nancy Raab-Traub, David Weber and many others in both Health Affairs and Academic Affairs. We have both clinical and research growth and they are closely linked. I think it's safe to say we are most widely recognized for our work on STDs and HIV," he says.

> *"I think it's safe to say we are most widely recognized for our work on STDs and HIV."*
>
> Myron S. Cohen, MD

Leaning back in his chair, pointing to one finger at a time, he recounts some program milestones:

"In 1982-83 we saw our first patients with AIDS. In 1986-7, our group was awarded one of the first AIDS Clinical Trials Units. That was important because it cemented our commitment to HIV. In 1987 came the first award as an NIH STD Clinical Research Center. That cemented our infrastructure for STD research and galvanized our involvement in the Durham and Wake County STD Clinics. In 1989, we became partners with Family Health International in the largest international AIDS Control program, AIDSCAP. That took UNC from domestic AIDS and STD research into the international arena. The year 1992 saw the decision to form a group committed to the biology of HIV transmission. That led us to conduct a number of studies on HIV transmission and prevention, which garnered wide recognition. That also was the year we developed a NIH HIVNET site in Malawi, in partnership with Johns Hopkins University."

In 1996, under Cohen's direction, UNC was awarded the NIH's STD Clinical Trials Unit for the United States.

"At that point we became involved in global transnational STD research," he says. "In 1997, the NIH awarded UNC a Fogarty Center for STD and HIV prevention. That further formalized our relationships with Malawi and China, as we are a Fogarty Center for those countries."

This success led to the formation of the UNC Center for HIV/STDs and Infectious Diseases. "The Center will allow us to coordinate clinical research, and teaching activities across campus," Cohen explains . "We are already one of the largest infectious disease/microbiology research groups in the country. We think the Center structure will help us to attract the students and trainees who will be future leaders and mentors.

"Infectious diseases is a wonderful and fascinating field. The whole idea of "emerging pathogens" comes from constant dynamic interaction between our species and the microbial world. We will forever be confronted with new bugs, resistant bugs, bugs that have new behaviors, and changes in human host defenses. Working in infectious diseases, you never get bored." □

Family Honors Its UNC He

By Dick Broom

The night was brutally cold when a farmer came to Dr. William T. Turlington's home in Fremont, N.C. seeking help for his 4-year-old daughter. Although he had heart trouble and wasn't feeling well, the doctor didn't hesitate. He went to the farmhouse in the country, where he diagnosed the girl's problem as acute appendicitis and performed surgery on the family's kitchen table. The year was 1916.

The little girl survived the episode, but Turlington, who was only 50, did not. Upon returning home late that night, he woke his wife and told her he was dying. He then gave her advice about the education of their four sons and said, "Now, kiss me goodbye." He died a few moments later.

His obituary described him as a physician who "worked the highways and hedges, in the homes of the poor and the rich, healing the sick — and by his kind, tender manner and attentiveness, won the hearts of hundreds."

Eighty-one years later, in 1997, the nine grandchildren of this exemplary country doctor established a scholarship at the UNC School of Medicine in his memory. The William T. Turlington Sr., M.D. Scholarship covers a year's tuition for one medical student annually based on financial need. By endowing the scholarship fund, the nine Turlington family members were honoring the wishes of their uncle, James W. Turlington, who was one of their grandfather William's four sons.

James Turlington received his bachelor's and master's degrees in education from UNC and served for many years as principal of a Raeford junior high school, which was named for him when he retired. A few years before his death at 81 in 1995, he moved back to his hometown of Fremont in Wayne County.

"On several occasions, Uncle Jimmy talked with me about making a will and wanting to give something to Carolina," recalls Betsy Smith of Fremont, one of his nieces. "He never made a will, but after his death we found a piece of paper listing what he wanted done with his estate. Among other things, he wanted his house to be sold and the money used to establish a scholarship fund at the UNC medical school in his father's name."

Turlington's son, William T. Turlington Jr., was a member of the School of Medicine's class of 1927.

The year before Turlington died, he donated his father's medical license and walking cane to the North Carolina Collection at UNC's Wilson Library.

Since Turlington never married and had no children, it was left to his nieces and nephews to handle his estate. Without hesitation, they agreed to create the scholarship "as an expression of love and respect" for their grandfather William and Uncle James.

The Turlington name has been prominent in medicine for at least 300 years. In England in 1703, Robert D. Turlington, MD, received a patent for Turlington's Balsam, also known as Turlington's Elixir. A few years earlier, the English diarist and secretary of the admiralty, Samuel Pepys, wrote of going to see Turlington.

Nearly two centuries later, Willis Turlington became the first member of his family to graduate from the UNC School of Medicine. His brother, William T. Turlington Sr., was the second, earning his certificate in medicine in 1892. William received his medical degree at the College of Physicians and Surgeons in Baltimore in 1894 and, later that year, established his medical practice in Fremont.

One of his four sons, William T. Turlington Jr., MD, graduated from the two-year School of Medicine in 1927. And one of his sons, W. Robert "Bob" Turlington, MD, earned his medical degree at UNC in 1969. He had received a bachelor's degree in business from UNC in 1960 and then had worked as an industrial engineer.

"But I wasn't really happy," he says. "I wanted to do something that would be a little more help to the community."

Since 1972, he has practiced family medicine in Jacksonville, N.C., his hometown.

The fifth Turlington to graduate from the School of Medicine is William T. Turlington IV, MD '91, who practices obstetrics and gynecology in Hickory, N.C.

"I admired my grandfather so much and always wanted to be like him," he says of William T. Turlington Jr. "I got my under-

ritage Through Scholarship

graduate degree at Davidson, but for medical school, I wanted to go to Carolina. It's a family tradition, and it's the best school in the state."

William T. Turlington IV, MD '91

The family's association with UNC began with William T. Turlington Sr.'s father, Eli, who owned a large farm near Benson in Johnston County. He and his wife, Sarah, wanted their 10 children to have a good education. So, every year, Eli would drive a mule to Chapel Hill to visit his good friend, Dr. Kemp Battle, the president of the University of North Carolina, and ask him to send a teacher to Johnston County.

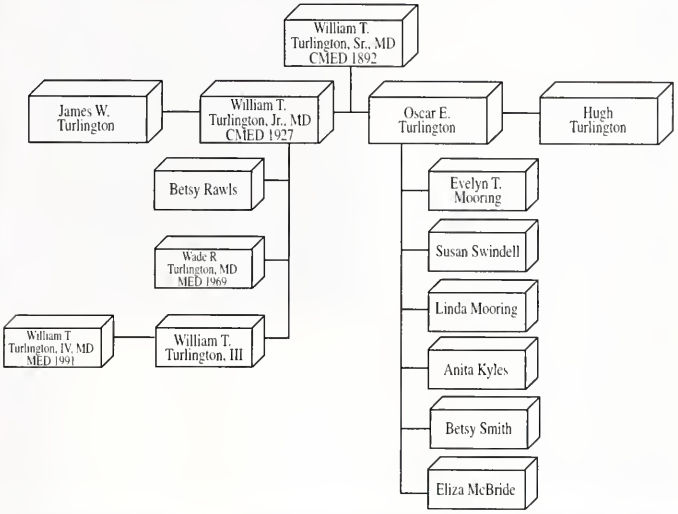
"The teachers always lived in the Turlington home, and Eli guaranteed their salary," says Helen Rawls, one of Eli's great-grandchildren. "Neighboring families who sent their children to the community's small, frame schoolhouse were asked to pay if they could, but all were welcome."

Zebulon Turlington, a state legislator and a brother of Drs. William Sr. and Willis, once wrote: "We were always made to feel that education was the main thing in our lives. The cultural and educational value of having school teachers in the home year after year was inestimable."

The kind of devotion and loyalty that the Turlington family has shown to the medical school over the years is part of what defines the strength of the institution, says Jeffrey L. Houpt, MD, dean of the School of Medicine.

"It says that, while the school has had many different leaders and has gone through so many changes, it has kept its core values," Houpt says. "It is these values that the first Turlington responded to more than 100 years ago and members of the family are still responding to today."

The Turlington Family Tree



First Turlington Scholarship Awarded

The first Turlington Scholarship recipient is John B. "Jay" Reynolds, Jr., who grew up in Guilford County. He is the youngest of five children and the first college graduate in his family. He earned his bachelor's degree in psychology at UNC and now is in his final year of medical school. He plans to specialize in general surgery.

Were it not for the Turlington Scholarship, he says, he would be facing an even larger student loan burden after he earns his M.D. degree.

Jeffrey L. Houpt, MD, dean of the School of Medicine, said need-based scholarships such as the Turlington Scholarship are important not only because they help individual students receive an excellent medical education.

"These scholarships help make other bright, dedicated people aware that they don't have to diminish their aspirations just because they don't have a lot of money," Houpt says. "It lets them know that if they want to serve the people of the state as doctors, they can prepare to do that here."

Jay Reynolds is prepared to serve not only with his mind and hands, but also with his voice. As an undergraduate he studied classical voice and sang with the Carolina Choir, UNC Chamber Singers and Opera Theater Ensemble.

"I also have a passion for contemporary a cappella singing, and over the past few years I've sung in the Clef Hangers, Tar Heel Voices, and the Extractions," Reynolds says.

He has been a member of singing groups that have recorded seven albums including an album of traditional Carolina fight songs.

A Tribute to Gen

The Medical Foundation of Nor

By Melissa Matson

Because of the Medical Alumni Loyalty Fund, Robert Bashford, MD, can do what he does best — teach future physicians. And Michael Rosenthal, a MD/PhD student, won't have to pay off huge student loans.

Because of the Van L. Weatherspoon Jr. Endowed Professorship, Estrada Bernard, MD, can focus on the Division of Neurosurgery's effort to apply basic science research to patient care.

And because of the Pittsburgh Foundation,* the Lineberger Comprehensive Cancer Center can provide more resources to the North Carolina-Breast Cancer Screening Program, an outreach to older, African American women in five low-income counties.

Though the medical school receives much-needed funding from the N.C. Legislature and NIH grants, these monies fall short of what is needed to fully finance all of its teaching, research, clinical and outreach endeavors. In many instances, it is generous private donations to the Medical Foundation that make up the difference.

"This year, the Medical Foundation celebrates 50 years of service to the medical school and UNC Hospitals," said Jeffrey L. Houpt, MD, dean of the School of Medicine. "In that time, we have seen individuals interested in UNC's welfare contribute millions of dollars toward patient care, research, teaching and outreach programs."

The evening gala was held at the Carolina Inn in Chapel Hill.

Jack Lynch, MD '42 of Wrightsville Beach, N.C. (left) and Hector MacLean (right) of Lumberton, N.C. attended the gala. Lynch is a retired pediatrician and MacLean served as Chair of the Medical Foundation Board from 1971-92.

Interim Chancellor Bill McCoy and UNC President Molly Broad.

erosity and Vision

Carolina, Inc. celebrates 50 years

Ernest Craig, MD, and his wife, Hazel, take a moment from the festivities to pose for the camera. Craig is a former chief of cardiology at UNC.

Former Medical Foundation Chair Jim Millis (left) shares a few memories and a hearty laugh with Interim Chancellor Bill McCoy (center) and Matt Kupec, Vice Chancellor of University Advancement.

Former Chancellor Chris Fordham, MD, '49 (left) and Medical Foundation President Jim Copeland were all smiles as they celebrated the Foundation's 50th Anniversary.

In the past 10 years, more than $80 million have gone toward such programs as professorships and need-based and merit scholarships for students.

"Endowed professorships are truly vital to the quality of the school, because they allow us to recruit and retain the brightest and best faculty in the country and the world," said Medical Foundation President James Copeland. "And the Foundation has been very effective in the development of scholarships for our students, so we've been able to accept students regardless of their ability to pay tuition."

The Foundation has also played a crucial role in improving campus facilities and furthering special programs. For instance, the Foundation has helped fund the Lineberger Comprehensive Cancer Center, the Thurston Arthritis Research Center and the N.C. Children's Hospital.

"On this 50th anniversary, we need to pay great tribute to the people who had the vision and foresight to create The Medical Foundation and to the generous people who have given of their financial resources," Copeland said. "They have made the difference between this being a good medical school and a great one." □

**Note: The North Carolina-Breast Cancer Screening Program is also funded by the National Cancer Institute, the Susan G. Komen Breast Cancer Foundation (both national and Triangle affiliate), the Avon Breast Health Access Fund and the Kate B. Reynolds Charitable Trust.*

Alumni Notes

50s

R.J. "Jack" Blackley, MD '53, former director and medical director of the N.C. Division Mental Health, is presently an adjunct professor of psychiatry at UNC. Blackley writes that he enjoys vegetable and flower gardening as well as having lunch with former colleagues at the Division and at UNC.

60s

George M. Stevens III, MD '64, retired in June from Tennessee Orthopedic Clinic. Stevens can be reached at gstevens@esper.com.

Malcolm N. McLeod, MD '65, is in private practice of psychiatry and psychoanalysis in Chapel Hill. He's a clinical professor in the UNC School of Medicine's department of psychiatry and is a training and supervising psychoanalyst at the UNC-Duke Psychoanalytic Education Program. Contact him at MalcMcL@aol.com.

70s

Fred F. Bahnson, MD, '73, has opened an ENT practice in Brevard, NC.

Thomas Lee Pope, Jr., MD '73, '78, is professor of radiology and Associate Chairman of Clinical Affairs at Medical University of Charleston. Pope says he and his wife and two sons, David, 17, and Jason, 15, have a strong affection for UNC but love the Lowcountry of South Carolina. Contact him at popetl@musc.edu.

Howard A. "Mack" McMahan, MD '75, has been promoted to the rank of Brigadier General in the U.S. Air Force Reserve. His current position is Mobilization Assistant to the Command Surgeon at Air Combat Command Headquarters, Langley Air Force Base. McMahan is an orthopedic surgeon with Resurgeons in Atlanta.

Howard Stang, MD '77, received the 1999 Research Practitioner Award from the American Academy of Pediatrics at its annual meeting. The award recognizes a primary care pediatrician in a full-time nonacademic practice whose body of clinical research has a major impact on the health of children. Stang lives in Minnesota and can be reached at Howard.J.Stang@Healthpartners.com.

80s

Melissa Will, MD '82, has relocated to Burnsville, NC. Married last summer, she and her husband had been living in Enumdair, WA.

Gary Lee Fink, MD '83, was recently elected chief of staff at Rowan Regional Medical Center in Salisbury, NC for 2000.

90s

Robert Berkenblit, MD '90, lives in Briarcliff, NY with his wife Kiera and children Carly, 4 1/2, and Brett, 2. You can reach him at rgberkenblit@pol.net.

Joel S. Goodwin II, MD '90, is a general surgeon at Maria Parham Hospital in Henderson, NC. Goodwin and Robert Noel, '89, have started their own practice in Henderson. You can reach Goodwin at JoelGoodwin@ncol.net.

Joseph "Herb" Harwell, MD '93, has taken a faculty position in the Infectious Diseases Division of Brown University at Miriam Hospital. Contact him at hharwell@pol.net.

Grant L. Campbell, MD '97, and his wife Anita, celebrated the arrival of their daughter, Maya Sharma, August 19. Campbell is a resident at Carolinas Medical Center in Charlotte, NC. Contact him at apgar10@concentric.net.

Deaths

Richard Harper Whitaker, CMED '32
Charles W. Sensenbach, MD '39
Sydney G. Dyer, MD '40
David Glenn Bunn, CMED '45

Faculty Notes

Amelia F. Drake, MD, associate professor of surgery, has received an Honor Award from the American Academy of Otolaryngology. She is one of 51 ear, nose and throat specialists nationwide given the award, which recognizes those who have served the Academy through presentation of scientific papers and instruction courses or participation on a continuing education committee.

Drake

Joyce Harp, MD, assistant professor of nutrition, is the 1998-99 recipient of the James W. Woods Junior Faculty Award. She was honored for her work, which investigates the controls on preadipocyte cell growth and differentiation as related to the development and treatment of obesity in diabetics.

David Kaufman, MD, professor of pathology and laboratory medicine, and jointly appointed in biochemistry and biophysics, is incoming president of FASEB. Kaufman's goals for the organization include efforts to increase the NIH budget and also increase funding to the National Science Foundation and other agencies funding biomedical science.

Kaufman

Gerhard Meisser, PhD, professor of biochemistry and biophysics, is a recently named Fellow of the Biophysical Society. Meissner was among 39 fellows honored for their excellence in science and contributions to the expansion of the field of biophysics. Meisser's laboratory investigates the molecular properties of the sarcoplasmic reticulum calcium-release channels of skeletal and cardiac muscle.

Jiri Prazma, MD, PhD, professor of surgery, has received the prestigious Presidential Citation from the American Academy of Otolaryngology. He is one of six physicians recognized nationally for outstanding achievements in the field. Prazma's citation highlighted his work in teaching research skills to residents and medical students.

Dale Ramsden, MD, newly appointed assistant professor in the department of biochemistry and biophysics, received a Searle Scholar award for his work on DNA recombination.

Lishan Su, MD, assistant professor of microbiology and immunology and a member of the UNC Line-berger Comprehensive Cancer Center, has been honored with the 1998-99 Jefferson-Pilot Award. The award honors Su for his work in the HIV field, which is focused on the thymus and its destruction from AIDS.

Su

William W. Shockley, MD, professor of surgery, has been named to Board of Directors of the American Academy of Otolaryngology. In that capacity, he will represent the Academy's membership in discussions on various medical and socioeconomic challenges. In the past, Shockley served on various Academy committees, including the Continuing Education Advisory Committee

Yue Xiong, PhD, assistant professor, biochemistry and biophysics, won the 1999 Gertrude B. Elion Award from the American Association for Cancer Research for his pioneering investigations of cell cycle control. The award is given annually to the most promising young cancer research in the country.

Xiong

The School of Medicine honored 1998 retiring faculty at a reception and dinner held last spring. Those in attendance included from left, Watson Bowes, MD, Upjohn Distinguished Professor of Obstretics and Gynecology; Benson Wilcox, MD, professor of cardiothoracic surgery; Robert A. Whaley, MD, associate professor of radiology (now deceased); William E. Easterling, MD, Associate Dean for Continuing Medical Education and Alumni Affairs; Ernest N. Kraybill, MD, professor of pediatrics; Robert E. Cross, PhD, professor of pathology and laboratory medicine; Charles Barry Burns, MS, associate professor of radologic science; Robert A. Mueller, MD, professor of anesthesiology and pharmacology. Jeffrey L. Houpt, MD, Dean of the School of Medicine, far right, recognized the honorees. Not pictured are Robert G. Faust, PhD, professor of physiology; Gerald W. Fernald, MD, professor and associate chair of pediatrics, Charles A. Herbst, Jr., MD, professor of surgery; Enid R. Kafer, MD, professor of anesthesiology and physiology; George Mason, PhD, research professor of psychiatry; and Norman J. Robinson, MD, clinical professor of medicine, Coastal AHEC.

Biggers Honored For a Career of Caring

By Dawn Gerakaris

William Paul Biggers, MD, Joseph P. Riddle professor of surgery, should have grown accustomed to honors by now — his list of distinguished recognitions is long and impressive. Last fall, the 1998 H. Fleming Fuller Award was added to the list.

The award is given annually to honor dedication to compassionate patient care and excellence in teaching. It is named for H. Fleming Fuller, MD, a Kinston physician and longtime member of the UNC Hospitals Board of Directors, who died in 1986.

Biggers' extensive career in otolaryngology has included helping launch men into space and restoring hearing for low-income deaf children.

One of Biggers' special interests has been the Carolina Children's Communication Disorders Program. The program, funded primarily by the N.C. General Assembly in 1992, has used sophisticated hearing aids and cochlear implants to restore hearing for more than 600 of the state's medically indigent children.

Biggers attributes the program's success to its dedicated team of surgeons, audiologists, speech pathologists and special education teachers.

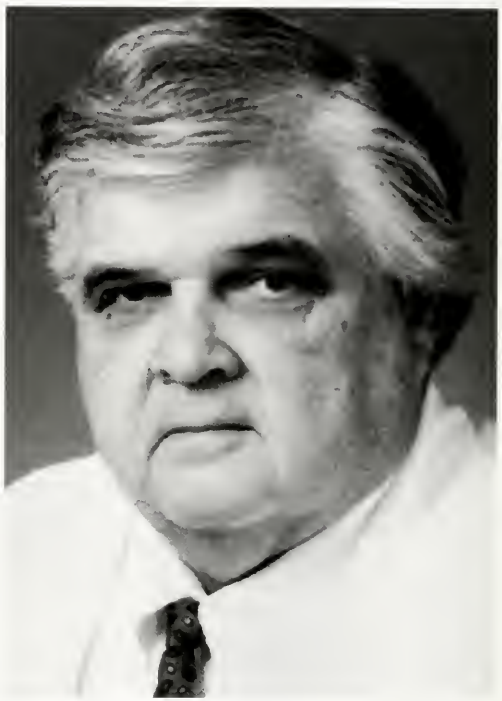
During the 1980s, Biggers worked with NASA's Life Sciences Division studying the role of the inner ear in zero gravity.

"Space motion sickness is experienced by about half of our astronauts upon their initial encounters with weightlessness," Biggers said. "It was truly exciting to answer some of the basic questions regarding man's adaptation to this new environment."

Biggers also is interested in the area of inhalant allergy and its role in sinus and ear disease. "It probably comes as no surprise to so many North Carolinians who suffer from allergies that allergy is the second leading cause of chronic disease in the nose, sinuses and middle ear," he said.

Although initially attracted to orthopaedic surgery, Biggers became interested in otolaryngology as a medical student at UNC. From performing delicate stapes replacement surgery and restoring hearing to conducting demanding head and neck cancer surgery, Biggers said he continues to enjoy the challenges of ENT.

Recognized as an Outstanding Student of Medicine upon his graduation from UNC in 1963, Biggers' career has been characterized by a commitment to excellence. His many other awards include the Excellence in Teaching Award, Professor of the Year and Service to Mankind Award.



William Paul Biggers, MD '63

"I am extremely grateful to medical students for their acknowledgment of my teaching efforts," Biggers said. "However, I am most proud of the professor awards I have won, and the recognition of the medical staff and my colleagues in receiving the Fuller Award."

A native of Charlotte, Biggers is a devoted Tar Heel and enjoys intercollegiate sports. Other interests include travel, dabbling in paint and the Internet.

"Like most physicians, I hope to have more 'quality time' with my family and especially with my grandchildren," he said.

When asked to share a favorite patient anecdote, Biggers recalled a frantic call from a hysterical mother who had found something growing in her child's ear. Sure enough, when the child arrived, he had a chronic draining ear. The reason? He had stuffed a kernel of corn into it, and the kernel had started to grow.

"Of course, we removed the sprouted kernel of corn before it formed an "ear,'" Biggers quipped. □

Note: Shortly after this issue of the *Bulletin* had gone to press, the 1999 Fuller Award winner was to be announced. A profile of this year's winner will be featured in the Spring issue of the *Bulletin*.

Classroom Know-How Improves Teen's Life

Getting permission to go to the bathroom during class can be trouble enough for healthy children, but imagine how hard it would be if you couldn't talk.

That's one of Travis Ward's many challenges.

Travis was born with cerebral palsy — a debilitating neurological and motor skills disorder — and a genetic error in metabolism. The upbeat 16-year-old Durham native can't run, can't ride a bicycle and can't perform countless other tasks — including talking — that many children take for granted.

So earlier this year, as part of their training, biomedical engineering graduate students at the UNC School of Medicine set out to make Travis' daily life a little easier.

They designed and built for him a special battery-operated vest that sports pads with small chains he can pull when he needs to communicate with his Neal School teacher.

When he pulls one chain, the vest plays a recording telling the teacher, "Yes." Another says, "No." A third pad says, "I'm thirsty. Can I get something to drink?" And a fourth says, "Hi. My name is Travis Ward." His teacher or parents can record other messages at any time, and more pads can be added.

"We spoke with special education teachers and therapists in the area to find out what sort of inventions they would like to have, but which did not exist," said Richard Goldberg, MD, visiting professor of biomedical engineering. "Then we researched the devices to make sure they did not exist and prepared a list of potential projects for graduate students to work on."

Goldberg, who earned his doctorate in biomedical engineering at Duke in 1994, teaches a class titled "Developing Custom Devices for the Disabled" for master's and doctoral students. Next spring, the class will open to applied science undergraduates.

Another class project this year enabled therapists at Durham's Lakeview Preschool to encourage developmentally disabled children to do more exercises boosting eye-hand coordination and muscle control.

"Therapists use commercial pop-beads to promote eye-hand coordination and muscle development in disabled children," Goldberg said. "However, many children become bored and distracted with the task of connecting the beads together to form links. Our students took plastic pop-beads, sawed them in half and put little circuits in them. When the children snap the beads together, they light up and play a song like 'Popeye the Sailor Man' or 'Row, Row, Row Your Boat.'"

> *"We spoke with special education teachers and therapists in the area to find out what sort of inventions they would like to have, but which did not exist."*
>
> Richard Goldberg, MD

That positive reinforcement encourages children to continue the important activity, he said. So far, the graduate students have made eight beads and plan to make at least four more, each containing micro-circuitry speakers, lights and a rechargeable battery. Some also contain vibrators.

"This was actually a very technically difficult project, and I was impressed at how well our students solved the problems," Goldberg said. "The battery was a huge issue, and getting everything to fit into such a small space was an issue too."

Ava Ward, Travis' mother, said the "talking" vest allowed her son to be more mobile in the classroom because he no longer has to remain only in a wheelchair that has prerecorded messages.

"Because the vest is made of denim like any teenager would wear, Travis thinks it's really cool," she said.

"These students have done something special, and we are grateful to them." □

Development Notes

Challenge Campaigns A Success

A tremendous thank you to the alumni who sponsored Challenge Gifts to Reunion Classes during the fiscal year 1998-99 Loyalty Fund Campaign. Thanks to their effort and generosity, an additional $25,000 was raised to support important student and faculty programs.

Challenge Sponsors for 1998-99 were:

- H. Wallace Baird, MD '69, Greensboro, NC
- Joel S. Goodwin, MD '59, Salisbury, NC
- Joseph M. Jenkins, MD '64, Fayetteville, NC

National Loyalty Fund Chair John W. Foust, MD '55 reports that 1,855 alumni contributed $642,000 to the annual Loyalty Fund Campaign during 1998-99 with 381 giving at the Associate level ($1,000+).

If you would like information on initiating a Challenge Gift for your next reunion, contact Beth Braxton or Brent Thomas at The Medical Foundation of North Carolina, Inc. You may reach them by calling at (919) 966-1201 or (800) 962-2543.

Another Gift From The Hunter Family

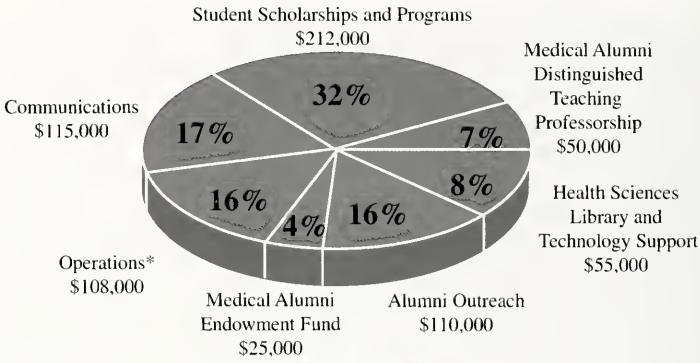
C. Eric Hunter

The Hunter-Barnett Learning Resources Center, which provides training and research materials for pulmonary medicine, has received a generous gift from another member of the family who established the center.

C. Eric Hunter, of Hilton Head, S.C., one of three sons of the late Charles Cree Hunter, Jr., MD '58, for whom the Center is named, donated a generous gift this fall. Hunter's father was a resident and research fellow at UNC when Professor Emeritus Thomas B. Barnett, MD, was head of the pulmonary medicine department. Over the years, the two men developed a close working relationship.

Eric's brother, F. Neal Hunter, who lives in Durham, N.C., was the first to make a contribution to help establish the training resource center. The center, housed in the Burnett-Womack building, was dedicated this past spring.

Loyalty Fund Budget FY 1999-2000 $675,000



*Funds raised in excess of Budget decrease the percentage.

Endowment Fund Grant Recipients Named for 1999-2000

A total of nine Medical Alumni Endowment Fund Grants were recently awarded for the 1999-2000 academic year. Grants are funded from interest earned on gifts to the Medical Alumni Endowment Fund.

Just as in recent years, awards of up to $5,000 were available to medical school faculty, and awards of up to $2,000 were available to students and housestaff. Grant recipients must use the funds during the year of the grant and must submit a year-end report to the Medical Alumni Endowment Board within 60 days following the end of the grant period.

This year's faculty recipients are:

- Mark A. Farber, MD, assistant professor, department of surgery, for "Phase I/II Trial of External Beam Irradiation to Prevent Intimal Hyperplasia in synthetic dialysis Grafts"
- Noelle A. Granger, PhD, professor, department of cell biology and anatomy, for "Cloning and sequencing of cDNAs for G proteins in an invertebrate endocrine gland"
- Thomas Traut, PhD, professor, department of biochemistry and biophysics, for "Regulation of UMP Synthase"

Resident/fellow recipients for this year are:

- Alexander D. Allaire, MD, MSPH, department of obstetrics/gynecology, for "Preeclampsia and Regulation of Placental Apoptosis"
- Robert E. Carlin, MD, department of surgery, for "Endothelin-1 and enothelial nitric oxide synthase immunoreactivity in human saphenous vein bypass grafts. Is there a difference between patients with and without renal failure?"
- Michael Ferguson, MD, department of otolaryngology, for "Electrically Evoked Auditory Brainstem Responses and their Relationships to Speech Perception and Behavioral Responses in Pediatric Cochlear Implant Patients"

Medical student recipients are:

- Gregory M. Buchold, Class of 2003, for "Cyclin-Dependent Kinase Inhibitors (CDIs) and Murine"
- Mark E. Hutchin, Class of 2000, for "The tumor suppressive role of the CDK inhibitors P18 and p27 in ras-mediated epithelial carcinogensis"
- Amish C. Sura, Class of 2000, for "The role of serotengic (5HTIA) receptors in sexual behavior of male rats"

Report to Donors

Dear Medical School Alumnus:

It is with sincere thanks and appreciation that I report to you that fiscal year 1998-99 (July-June) was another record-setting year for alumni giving to the UNC School of Medicine.

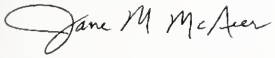
Over 44 percent of medical alumni nationally contributed a total of $1.2 million to benefit the School of Medicine. Of this amount, $545,000 was restricted to support much-needed professorships, fellowships, lectureships and other important programs. (Last year $2.2 million was given by 41 percent of the alumni.)

The remaining $642,000 was contributed by 37 percent of all alumni to the Loyalty Fund, the unrestricted fund that provides support when no other funding sources are available. It would take an endowment of $12.5 million to generate an annual income of $642,000. This illustrates the significance of alumni support in the life of the UNC School of Medicine.

The listing that follows includes the names of all those who made contributions to any Medical Foundation account between July 1, 1998 and June 30, 1999. Names in **bold** type recognize alumni who contributed at the $1,000 level or above. Names in *italics* recognize alumni who gave $10,000 or more.

Continued alumni participation in the Loyalty Fund Campaign plays a pivotal role in helping to determine the quality of programs that the UNC School of Medicine is able to offer its students and faculty each year. Thank you again for your generous support.

Sincerely,



Jane M. McNeer, Assistant Dean and
Director of Development
The Medical Foundation of North Carolina, Inc.

P.S. Please notify the Medical Foundation at (800) 962-2543 of any corrections to this list. We have made every effort for accuracy.

Honor Roll Of Alumni Donors
1998-1999

$1,000 - $9,999 donors are printed in bold.
$10,000 or more are printed in bold italics.

CLASS OF 1925
Number in Class: 2
Percent Donors: 50%
Herman F. Easom, M.D., Wilson, NC

CLASS OF 1929
Number in Class: 2
Percent Donors: 50%
Vance T. Alexander, M.D., Davidson, NC

CLASS OF 1930
Number in Class: 4
Percent Donors: 25%
Rufus R. Little, M.D., Ho Ho Kus, NJ

CLASS OF 1931
Number in Class: 9
Percent Donors: 11%
Ralph B. Garrison, M.D., Hamlet, NC

CLASS OF 1932
Number in Class: 7
Percent Donors: 29%
George P. Rosemond, M.D., Lancaster, PA
Robert E. Stone, M.D., Atlanta, GA

CLASS OF 1933
Number in Class: 4
Percent Donors: 25%
Arthur F. Toole, M.D., Talladega, AL

CLASS OF 1935
Number in Class: 4
Percent Donors: 25%
Julien H. Meyer, M.D., Roanoke, VA

CLASS OF 1936
Number in Class: 13
Percent Donors: 15%
Thomas F. Henley, M.D., Laurinburg, NC
Annie Louise Wilkerson, M.D., Raleigh, NC

CLASS OF 1937
Number in Class: 8
Percent Donors: 13%
W. Skellie Hunt, Jr., M.D., Wilmington, NC

CLASS OF 1939
Number in Class: 12
Percent Donors: 33%
Jesse B. Caldwell, Jr., M.D., Gastonia, NC
Henry T. Clark, Jr., M.D., Chapel Hill, NC
Edwin A. Rasberry, Jr., M.D., Wilson, NC
Thomas G. Thurston II, M.D., Greensboro, NC

CLASS OF 1940
Number in Class: 26
Percent Donors: 30%
Inez W. Elrod, M.D., Charlotte, NC
John B. Graham, M.D., Chapel Hill, NC
Henry C. Guynes, Jr., M.D., Rockwall, TX
French H. McCain, M.D., Bloomfield Hills, MI
Hugh H. McFadyen, M.D., Tucson, AZ
Lawrence E. Metcalf, M.D., Asheville, NC
John L. Ranson, Jr., M.D., Charlotte, NC
John H. Woltz, M.D., Roaring Gap, NC

CLASS OF 1941
Number in Class: 17
Percent Donors: 24%
Marcus L. Aderholdt, Jr., M.D., High Point, NC
Robert M. Hall, M.D., Raleigh, NC
Jack Hughes, M.D., Durham, NC
Carlton G. Watkins, M.D., Charlotte, NC

CLASS OF 1942
Number in Class: 22
Percent Donors: 41%
Jerry H. Allen, M.D., Springfield, MO
Frederick A. Blount, M.D., Winston-Salem, NC
H. William Harris, M.D., Garden City, NY
John F. Lynch, Jr., M.D., Wrightsville Beach, NC
John H. Miller, M.D., Bartow, FL
James D. Piver, M.D., Emerald Isle, NC
George W. Plonk, M.D., Kings Mountain, NC
William Tenenblatt, M.D., Lake Worth, FL
R. B. Williams, Jr., M.D., Wilmington, NC

CLASS OF 1943
Number in Class: 25
Percent Donors: 52%
Douglas H. Clark, Sr., M.D., Lumberton, NC
Truett V. Bennett, M.D., Oriental, NC
William N. Hubbard, Jr., M.D., Kalamazoo, MI
S. Malone Parham, M.D., Henderson, NC
James H. Shell, Jr., M.D., Baltimore, MD
James R. Collett, M.D., Morganton, NC
James B. Greenwood, Jr., M.D., Charlotte, NC
William F. Hutson, M.D., Northbrook, IL
Alexander C. Mitchell, M.D., Onchiota, NY
Sarah T. Morrow, M.D., Ph.D., Raleigh, NC
Frank R. Reynolds, M.D., Wilmington, NC
Kenneth W. Wilkins, M.D., Goldsboro, NC
Kenan B. Williams, M.D., Sanford, NC

CLASS OF 1944
Number in Class: 48
Percent Donors: 29%
Robert J. Andrews, M.D., Wilmington, NC
J. Vincent Arey, M.D., Concord, NC
Joseph W. Baggett, M.D., Fayetteville, NC
Hilda H. Bailey, M.D., Salisbury, NC
Earl E. Correll, M.D., Kannapolis, NC
J. Stuart Gaul, Jr., M.D., Charlotte, NC
Francis P. King, Sr., M.D., New Bern, NC
Isaac V. Manly, M.D., Raleigh, NC
George D. Penick, M.D., Wilmington, NC
Robert R. Rascoe, Jr., M.D., Philadelphia, PA
William L. Ross, Jr., M.D., Kensington, MD
J. Mitchell Sorrow, Jr., M.D., Chapel Hill, NC

Charles W. Tillett, M.D., Charlotte, NC
J. Taylor Vernon, M.D., Morganton, NC

CLASS OF 1945
Number in Class: 24
Percent Donors: 42%
G. Walker Blair, Jr., M.D., Burlington, NC
G. Robert Clutts, M.D., Greensboro, NC
A. Robert Cordell, M.D., Winston-Salem, NC
J. Hicks Corey, Jr., M.D., Chattanooga, TN
Courtney D. Egerton, Jr., M.D., Raleigh, NC
Harold L. Godwin, M.D., Fayetteville, NC
Weldon H. Jordan, M.D., Fayetteville, NC
John H. Monroe, M.D., Winston-Salem, NC
John R. Pender III, M.D., Charlotte, NC
Roger A. Smith III, M.D., San Bernadino, CA

CLASS OF 1946
Number in Class: 28
Percent Donors: 61%
Ira A. Abrahamson, M.D., Cincinnati, OH
Mary Agna, M.D., Yellow Springs, OH
Walter C. Barnes, Jr., M.D., Texarkana, TX
Crowell T. Daniel, Jr., M.D., Fayetteville, NC
William W. Forrest, M.D., Greensboro, NC
Mary Alice V. Fox, M.D., Mount Desert, ME
William H. Grey, M.D., Staunton, VA
G. Denman Hammond, M.D., Pasadena, CA
Robert S. Lackey, M.D., Charlotte, NC
Virginia S. Ronk, M.D., Lansdowne, PA
William E. Sheely, M.D., Alexandria, VA
H. Frank Starr, Jr., M.D., Greensboro, NC
David G. Stroup, M.D., Savannah, GA
Allen D. Tate, Jr., M.D., Burlington, NC
James T. Welborn, M.D., Lexington, NC
John E. Weyher, Jr., M.D., Topsail Beach, NC
Thomas E. Whitaker II, M.D., Greenville, SC

CLASS OF 1947
Number in Class: 14
Percent Donors: 14%
Harry G. Walker, M.D., Statesville, NC
Sarah L. Warren, M.D., Chapel Hill, NC

CLASS OF 1948
Number in Class: 27
Percent Donors: 33%
Robert R. Aycock, M.D., Saint Helena, CA
William S. Cheek, Sr., M.D., Spartanburg, SC
Tyndall P. Harris, M.D., Chapel Hill, NC
Edwin P. Hiatt, M.D., Wilmington, OH
Louis T. Kermon, M.D., Raleigh, NC
Julius A. MacKie, Jr., M.D., Bryn Mawr, PA
Shirley L. Rivers, M.D., Tucson, AZ
T. English Walker, M.D., Davidson, NC
Daniel T. Young, M.D., Chapel Hill, NC

CLASS OF 1949
Number in Class: 39
Percent Donors: 54%
Hoke V. Bullard, Jr., M.D., Wilson, NC
J. Dewey Dorsett, Jr., M.D., Charlotte, NC
Christopher C. Fordham III, M.D., Chapel Hill, NC
John M. Gambill, M.D., Elkin, NC
F. Sidney Gardner, Jr., M.D., Fayetteville, NC
Robert A. Griffin, M.D., Asheville, NC
Frank H. Hamilton, Jr., M.D., Charlotte, NC
Odell C. Kimbrell, Jr., M.D., Raleigh, NC
Spinks H. Marsh, M.D., Minneapolis, MN
Edward B. McKenzie, M.D., Statesville, NC
Charles F. Melchor, Jr., M.D., Myrtle Beach, SC
Edwin W. Monroe, M.D., Greenville, NC
Rose Pully, M.D., Kinston, NC
Arthur C. Quackenbush, M.D., Islip Terrace, NY
Frank T. Shafer, M.D., Salisbury, NC
Louise U. Sultan, M.D., Fallston, MD
Jack D. Summerlin, M.D., Indianapolis, IN
Edward C. Sutton, M.D., Burlington, NC
Jonathan S. Swift, M.D., Big Canoe, GA
G. Earl Trevathan, Jr., M.D., Greenville, NC
Maxine D. Wallace, M.D., Oakland, CA

Mary Susan Fuglum, MD '71 (left), Sue and Elliot Solomon, MD '60, and Cheryl McCartney, MD, Executive Associate Director of Medical Education (right) reminisce at the Medical Alumni Weekend reception.

CLASS OF 1950
Number in Class: 42
Percent Donors: 50%
Gertrude A. Bales, M.D., Rochester, NY
Frederick O. Bowman, Jr., M.D., Chapel Hill, NC
W. Grimes Byerly, Jr., M.D., Hickory, NC
Jack O. Carson, M.D., Grifton, NC
Elwood B. Coley, M.D., Lumberton, NC
John T. Dees, M.D., Cary, NC
A. Monroe Diggs, M.D., Palm City, FL
Buel K. Grow, Jr., M.D., Belle Meade, NJ
Joel B. Huneycutt, M.D., Lake Wylie, SC
George Johnson, Jr., M.D., Chapel Hill, NC
Harvey W. Johnston, M.D., Charlotte, NC
John A. Kirkland, M.D., Wilson, NC
Laurence B. Leinbach, M.D., Winston-Salem, NC
Dan A. Martin, M.D., Madisonville, KY
John L. McCain, M.D., Wilson, NC
Glenn D. Moak, M.D., Indianapolis, IN
J. Olin Perritt, Jr., M.D., Wilmington, NC
Belk C. Troutman, M.D., Grifton, NC
Charles R. Vernon, M.D., Wrightsville, NC
John L. Watters, M.D., Raleigh, NC
John R. Wilkinson, Jr., M.D., Hickory, NC

CLASS OF 1951
Number in Class: 45
Percent Donors: 20%
Luther L. Anthony, Jr., M.D., Gastonia, NC
John S. Barlow, M.D., Concord, MA
William B. Blythe II, M.D., Chapel Hill, NC
Baxter H. Byerly, M.D., Tallahassee, FL
A. James Coppridge, M.D., Durham, NC
Hal B. Hawkins, M.D., Wilkesboro, NC
Harold C. Lane, M.D., Rutherfordton, NC
Murdoch R. McKeithen, M.D., Laurinburg, NC
Luther W. Oehlbeck, Jr., M.D., LaBelle, FL

CLASS OF 1952
Number in Class: 5
Percent Donors: 20%
Charles H. Powell, M.D., Anderson, SC

CLASS OF 1954
Number in Class: 35
Percent Donors: 57%
Paul H. Brigman, M.D., High Point, NC
A. Joseph Diab, M.D., Raleigh, NC
Malcolm Fleishman, M.D., Fayetteville, NC
Charles B. Fulghum, Jr., M.D., Atlanta, GA
W. Jackson Grant III, M.D., Winston-Salem, NC
J. Franklin Graves, M.D., Mt. Pleasant, SC
Sara L. Hoyt, M.D., Rome, GA
Robert S. Jones, M.D., Shelby, NC
Charles H. Owens, M.D., Murrells Inlet, SC
James C. Parke, Jr., M.D., Charlotte, NC
Cornelius T. Partrick, M.D., Washington, NC
Ely J. Perry, Jr., M.D., Kinston, NC
Allen Spencer, M.D., Salisbury, NC
Nat H. Swann, Jr., M.D., Signal Mountain, TN
H. Durwood Tyndall, M.D., Goldsboro, NC
William H. Weinel, Jr., M.D., Wilmington, NC
Edward S. Williams, Jr., M.D., Pine Knoll Shores, NC
Stephen G. Wilson, Jr., M.D., Knoxville, TN
Virgil A. Wilson, M.D., Winston-Salem, NC
A. Donald Wolff, M.D., Clemmons, NC

CLASS OF 1955
Number in Class: 51
Percent Donors: 55%
Julian S. Albergotti, Jr., M.D., Charlotte, NC
Robert G. Brame, M.D., Charlotte, NC
Ralph E. Brooks, Jr., M.D., High Point, NC
Walter E. Deyton, M.D., Danville, VA
Griggs C. Dickson, M.D., Charlotte, NC
Charles F. Eddinger, M.D., Spencer, NC
John W. Foust, M.D., Charlotte, NC
J. Eugene Glenn, M.D., Jacksonville, FL
Ira D. Godwin, M.D., Fairfax, VA
Robert L. Golby, M.D. and Mary B. Golby, M.D., Durham, NC
James W. Hayes III, M.D., Burlington, NC
William D. Huffines, M.D., Chapel Hill, NC
Samuel G. Jenkins, Jr., M.D., Elizabeth City, NC
Robert C. Jordan, Jr., M.D., Sanford, NC
Samuel B. Joyner, M.D., Greensboro, NC
A. Smith Lineberger, Jr., M.D., Alexandria, VA
William L. London IV, M.D., Durham, NC
Clarence R. McLain, Jr., M.D., Cincinnati, OH
J. Thaddeus Monroe, Jr., M.D., Chapel Hill, NC
Thomas P. Moore, M.D., Jacksonville, NC
G. Irvin Richardson, M.D., Reidsville, NC
Harold R. Roberts, M.D., Chapel Hill, NC
Oliver F. Roddey, Jr., M.D., Charlotte, NC
Palmer F. Shelburne, M.D., Greensboro, NC
Henry L. Stephenson, Jr., M.D., Washington, NC
Robert L. Summerlin, Jr., M.D., Dublin, NC
G. Reginald Tucker, Jr., M.D., Emerald Isle, NC
W. Wallace White, M.D., Cincinnati, OH

CLASS OF 1956
Number in Class: 52
Percent Donors: 42%
John R. Baggett III, M.D., New Bern, NC
Richard A. Boyd, M.D., Statesville, NC
Wade M. Brannan, M.D., Port Arthur, TX
John W. Deyton, Jr., M.D., Jacksonville, NC
William E. Easterling, Jr., M.D., Chapel Hill, NC
John T. Evans, M.D., Chattanooga, TN

Francis W. Green, M.D., Albemarle, NC
Otis M. Lowry, M.D., Spring Hope, NC
William W. McLendon, M.D., Chapel Hill, NC
J. Doyle Medders, M.D., Louisburg, NC
Robert L. Murray, M.D., Roanoke, VA
John W. Ormand, Jr., M.D., Wilmington, NC
Thomas W. Payne, M.D., Newport News, VA
Clifton G. Payne, M.D., Reidsville, NC
Francis D. Pepper, Jr., M.D., Winston-Salem, NC
Carey J. Perry, M.D., Louisburg, NC
William R. Purcell, M.D., Laurinburg, NC
James F. Richards, Jr., M.D., Orlando, FL
John W. Vassey, M.D., Raleigh, NC
William B. Wood, M.D., Chapel Hill, NC
Leonard S. Woodall, M.D., P.A., Smithfield, NC
Dewey H. Yarley, M.D., Durham, NC

CLASS OF 1957
Number in Class: 51
Percent Donors: 39%
H. John Bradley, Jr., M.D., Greensboro, NC
James H. Burrus, M.D., Shelby, NC
James R. Clapp, M.D., Durham, NC
Robert S. Cline, M.D., Sanford, NC
Luther H. Clontz, M.D., Morganton, NC
William P. Cornell, M.D., Phoenix, AZ
John K. Farrington, M.D., High Point, NC
J. Grayson Hall, M.D., Mount Airy, NC
Bennett A. Hayes, Jr., M.D., Fayetteville, NC
J. Paul Hurst, Jr., M.D., Rydal, PA
George L. Irvin III, M.D., Coral Gables, FL
Richard V. Liles, Jr., M.D., Albemarle, NC
Harvey A. Page, M.D., Pikeville, KY
Raeford T. Pugh, M.D., Washington, NC
Irl T. Sell III, M.D., Highlands Ranch, CO
Nathaniel L. Sparrow, M.D., Raleigh, NC
James H. M. Thorp, M.D., Rocky Mount, NC
Gerald M. Wagger, M.D., Palo Alto, CA
Earl P. Welch, Jr., M.D., Winston-Salem, NC
Dr. Benson R. and Mrs. Lucinda Holderness Wilcox, Chapel Hill, NC

CLASS OF 1958
Number in Class: 49
Percent Donors: 33%
Clarence A. Bailey, Jr., M.D., Durham, NC
John I. Brooks, Jr., M.D., Tarboro, NC
Rebecca H. Buckley, M.D., Durham, NC
M. Paul Capp, M.D., Tucson, AZ
David B. Crosland, M.D., Mt. Pleasant, NC
James R. Edwards, M.D., Raleigh, NC
George E. Ennis, M.D., Hickory, NC
Nancy P. Fawcett, M.D., Pembroke Pines, FL
Thomas M. Haizlip, M.D., Raleigh, NC
John S. Howie, M.D., Raleigh, NC
Luther S. Nelson, M.D., Amarillo, TX
T. Lane Ormand, M.D., Monroe, NC
Dewey H. Pate, M.D., Raleigh, NC
J. Richard Patterson, M.D., Danville, VA
B. Everett Thompson, Jr., M.D., Cary, NC
Paul M. Weeks, M.D., Wrightsville Beach, NC

CLASS OF 1959
Number in Class: 49
Percent Donors: 63%
Doris B. Braxton, M.D., Burlington, NC
Bobby C. Brown, M.D., Decatur, GA
Robert C. Brown, M.D., Chapel Hill, NC
Daniel Whitaker Davis, M.D., Wadesboro, NC
A. Eugene Douglas, Jr., M.D., Bald Head Island, NC
Everett H. Ellinwood, Jr., M.D., Durham, NC
Otis N. Fisher, Jr., M.D., Greensboro, NC
George W. Gentry, Jr., M.D., Roxboro, NC
Charles F. Gilbert, M.D., Greenville, NC
William M. Ginn, Jr., M.D., Raleigh, NC
Joel S. Goodwin, M.D., Salisbury, NC
Robert L. Green, Sr., M.D., Winston-Salem, NC
O. James Hart, Jr., M.D., Mocksville, NC
A. Tyson Jennette, M.D., Wilson, NC
Morris A. Jones, Jr., M.D., Chapel Hill, NC
David L. Kelly, Jr., M.D., Winston-Salem, NC
Kenneth B. Lewis, M.D., Baltimore, MD
Robert P. Linker, M.D., Charleston, SC
Wilfred D. Little, Jr., M.D., Spokane, WA
Edward L. Mitchell, M.D., Prospect, KY
A. Sherman Morris, Jr., M.D., Asheville, NC
W. Russell Rowland, M.D., Greer, SC
Julian W. Selig, Jr., M.D., Elizabeth City, NC
Drs. Martha and Edward Sharpless, Greensboro, NC
Edwin L. Stewart, M.D., Swannanoa, NC
Shahane R. Taylor, Jr., M.D., Greensboro, NC
Charles E. Trado, Jr., M.D., Hickory, NC
Bennie B. Ward, M.D., Shallotte, NC
C. Carl Warren, Jr., M.D., Charlotte, NC
R. Lee West, M.D., Greenville, NC
Robert G. Wilson, M.D., Carefree, AZ

CLASS OF 1960
Number in Class: 62
Percent Donors: 24%
William B. Abernethy, Jr., M.D., Gastonia, NC
Sellers L. Crisp, M.D., Greenville, NC
Charles P. Eldridge, Jr., M.D., Houston, TX
J. Thomas Fox, Jr., M.D., Valle Crucis, NC
James R. Harper, M.D., Durham, NC
Falls L. Harris, M.D., Greenville, SC
E. Carwile LeRoy, M.D., Charleston, SC
K. Franklin McCain, M.D., Winston-Salem, NC
Cecil H. Neville, Jr., M.D., Pinehurst, NC
Duncan S. Owen, Jr., M.D., Richmond, VA
Jerry M. Petty, M.D., Charlotte, NC
Elizabeth V. Raft, M.D., Durham, NC
Elliott Solomon, M.D., Rye Brook, NY
G. Thomas Strickland, Jr., M.D., Baltimore, MD
P. Burt Veazey, M.D., Sarasota, FL

CLASS OF 1961
Number in Class: 50
Percent Donors: 42%
Charles O. Boyette, Sr., M.D., Belhaven, NC
William L. Brown, M.D., Roanoke Rapids, NC
H. David Bruton, M.D., Carthage, NC
Daniel E. Clark, M.D., Southern Pines, NC
John C. Council, Jr., M.D., Charlotte, NC
Robert K. Creighton, Jr., M.D., M.P.H., Wilmington, NC
William S. Gibson, Jr., M.D., Riverside, PA
William H. Kouri, M.D., Isle of Palms, SC
Lloyd D. Lohr, M.D., Lexington, NC
Zell A. McGee, M.D., Salt Lake City, UT
William W. Morgan, Jr., M.D., Reno, NV
A. Ray Newsome, M.D., Winston-Salem, NC
C. Rex O'Briant, M.D., Gilbert, AZ
William L. Owens, M.D., Clinton, NC
Louie L. Patseavouras, M.D., Greensboro, NC
Cecil H. Rand, Jr., M.D., Greenville, NC
James H. Robinson, M.D., Wilmington, NC
W. Ferrell Shuford, Jr., M.D., Wilmington, NC
Joshua Tayloe, M.D., Washington, NC
Zebulon Weaver III, M.D., Asheville, NC
Donn A. Wells, M.D., Sea Ranch Lakes, FL

CLASS OF 1962
Number in Class: 52
Percent Donors: 38%
Karl L. Barkley, M.D., Greensboro, NC
Oscar H. Bolch, Jr., M.D., San Diego, CA
Joseph H. Callicott, Jr., M.D., Lynchburg, VA
Lawrence M. Cutchin, M.D., Tarboro, NC
Jerry J. Eller, M.D., Livingston, AL
Thomas W. Gable, M.D., Atlanta, GA
Frederick D. Hamrick III, M.D., Lynchburg, VA
H. Gerard Hartzog III, M.D., Raleigh, NC
Dr. and Mrs. Ray M. Hayworth, M.D., Knoxville, TN
Edward M. Hedgpeth, Jr., M.D., Durham, NC
Charles M. Hicks, M.D., Wilmington, NC
J. Newton MacCormack, M.D., Raleigh, NC
Kenny J. Morris, M.D., Wilmington, NC
Carl S. Phipps, M.D., Winston-Salem, NC
Alton A. Reeder, M.D., High Point, NC
Lambros C. Rigas, M.D., Rome, GA
D. Emerson Scarborough, Jr., M.D., Raleigh, NC
Fuller A. Shuford, M.D., Asheville, NC
Roy Van Varner, M.D., Houston, TX
David T. Watson, M.D., Atlanta, GA

CLASS OF 1963
Number in Class: 52
Percent Donors: 38%
William P. Algary, M.D., Greenville, SC
Neil C. Bender, M.D., New Bern, NC
I. Kelman Cohen, M.D., Richmond, VA
John W. Dalton, Jr., M.D., Santa Monica, CA
Dave M. Davis, M.D., Atlanta, GA
William B. Deal, M.D., Birmingham, AL
Benjamin E. Dunlap, M.D., Statesville, NC
J. Michael Gallagher, M.D., Seattle, WA
William O. Jolly III, M.D., Albemarle, NC
W. Bryan Latham, M.D., Miami, FL
J. M. McLean, M.D., Peoria, IL
James L. Parker, M.D., Hickory, NC
Charles J. Sawyer III, M.D., Ahoskie, NC
Samuel E. Scott, M.D., Burlington, NC
Richard W. Shermer, M.D., Chapel Hill, NC
David W. Sillmon, M.D., Greensboro, NC
Jerry A. Smith, M.D., Memphis, TN
W. Landis Voigt, M.D., Edenton, NC
Roy A. Weaver, M.D., Fayetteville, NC
James G. White, M.D., Ormond Beach, FL

CLASS OF 1964
Number in Class: 54
Percent Donors: 46%
J. David Atchison, M.D., Ruston, LA
John Nichols Beard, M.D., Charlotte, NC
R. Kivette Bowman, M.D., Raleigh, NC
Winslow Brabson, M.D., Santa Fe, NM
W. Rowell Burleson, M.D., Lumberton, NC
John R. Cella, M.D., Raleigh, NC
Roy L. Curry, Jr., M.D., San Francisco, CA
James F. Earnhardt, M.D., Winston-Salem, NC
H. Stanley Gregory, M.D., Jacksonville, NC
G. Patrick Henderson, Jr., M.D., Southern Pines, NC
E. Carmack Holmes, Jr., M.D., Pacific Palisades, CA
D. Charles Hunsinger, M.D., Kinston, NC
W. Kirby Kilpatrick, Jr, M.D., Pinehurst, NC
Jefferys A. MacFie, Jr., M.D., Greenville, SC
Ronald L. Mauldin, M.D., Gainesville, FL
Noel B. McDevitt, M.D., Southern Pines, NC
Murphy F. McGirt, Jr., M.D., Kinston, NC
Artus M. Moser, Jr., M.D., Swannannoa, NC
Robert J. Pierce, Jr., M.D., Hickory, NC
Robert E. Price, Jr., M.D., Durham, NC
Marshall E. Redding, M.D., Long Beach, CA
James W. Reynolds, Jr., M.D., Salisbury, NC
Wayne B. Venters, M.D., Hampstead, NC
James L. Williams, M.D., Spokane, WA
Robin N. Wooten, Jr., M.D., Lakeland, FL

CLASS OF 1965
Number in Class: 54
Percent Donors: 19%
Takey Crist, M.D., Jacksonville, NC
Robert L. Grubb, Jr., M.D., Glendale, MO
Alexander C. Hattaway III, M.D., Raleigh, NC
Joe P. Hurt, M.D., Ph.D., Sylva, NC
Bernard R. Jack, M.D., Azle, TX
Robert T. Kindley, M.D., Astoria, NY
Gordon B. LeGrand, M.D., Raleigh, NC
Thomas L. Presson, M.D., Greensboro, NC
William F. Sayers, M.D., Winston-Salem, NC
Williamson B. Strum, M.D., La Jolla, CA

CLASS OF 1966
Number in Class: 62
Percent Donors: 56%
J. Curtis Abell, M.D., Statesville, NC
Robert P. Barringer, M.D., Gastonia, NC
Robert H. Bilbro, M.D., Raleigh, NC
William H. Bowers, M.D., Richmond, VA
Paul L. Burroughs, Jr., M.D., Raleigh, NC
Timothy E. Cloninger, M.D., Charlotte, NC
George W. Cox, M.D., Atlanta, GA
J. Bernard Credle, M.D., Beaufort, SC
William M. Crutchfield, M.D., Elizabeth City, NC
Philip C. Deaton, M.D., Greensboro, NC
Edgar C. Garrabrant II, M.D., Raleigh, NC

Robert C. Gibson III, M.D., Portland, OR
Cyrus L. Gray III, M.D., Hiawassee, GA
George T. Grigsby, Jr., M.D., Las Vegas, NV
Howard T. Hinshaw, M.D., Charlotte, NC
Nelson N. Howell, M.D., Charlotte, NC
William C. Hubbard, M.D., Raleigh, NC
Thomas J. Koontz, M.D., Winston-Salem, NC
Jacob A. Lohr, M.D., Chapel Hill, NC
Hugh A. McAllister, Jr., M.D., Houston, TX
Edgar M. McGee, M.D., Lexington, KY
Peter L. Morris, M.D., Santa Barbara, CA
Duncan Morton, Jr., M.D., Charlotte, NC
Hugh G. Murray, Jr., M.D., Atlanta, GA
Surry P. Roberts, M.D., Raleigh, NC
Charles K. Scott, M.D., Haw River, NC
Robert E. Sevier, M.D., Greensboro, NC
J. Lewis Sigmon, Jr., M.D., Charlotte, NC
H. Lee Smyre, M.D., Greer, SC
E. Walker Stevens, Jr., M.D., Greensboro, NC
Donald A. Thomas, M.D., Seneca, SC
W. Beverly Tucker III, M.D., Henderson, NC
James H. Whicker, M.D., Raleigh, NC
John A. Young, M.D., Charlotte, NC
James A. Yount, M.D., Charlotte, NC

CLASS OF 1967
Number in Class: 67
Percent Donors: 42%
Rudy W. Barker, M.D., Durham, NC
Gerald W. Blake, M.D., Raleigh, NC
Thomas W. Bundy, M.D., Chambersburg, PA
Vartan A. Davidian, Jr., M.D., Raleigh, NC
C. Allan Eure, M.D., Raleigh, NC
David A. Evans, M.D., Monroe, NC
R. Donald Garrison, M.D., Jacksonville, FL
Harvey J. Hamrick, M.D., Chapel Hill, NC
E. Franklin Hart, Jr., M.D., Morganton, NC
L. Fuller Honeycutt, Jr., M.D., Raleigh, NC
James D. Hundley, M.D., Wilmington, NC
Linda H. Jackson, M.D., Arden, NC
William H. Jarman, Jr., M.D., Gastonia, NC
Scott G. Kleiman, M.D., Marietta, GA
Frank W. Leak, Sr., M.D., Clinton, NC
Clifford T. Lewis, Jr., M.D., Wilmington, NC
Robert W. Madry, Jr., M.D., Corpus Christi, TX
W. Jason McDaniel, Jr., M.D., Raleigh, NC
Donald H. McQueen III, M.D., Rock Hill, SC
Harold B. Owens, M.D., Danville, VA
Gerald Pelletier, Jr., M.D., New Bern, NC
Albert L. Roper II, M.D., Norfolk, VA
Douglas M. Russell, M.D., Goldsboro, NC
Walter R. Sabiston, M.D., Kinston, NC
James H. Spruill, M.D., Jackson, TN
Henry C. Thomason, Jr., M.D., Gastonia, NC
Benjamin K. Ward, Jr., M.D., Florence, SC
Barry M. Welborne, M.D., Charlotte, NC

CLASS OF 1968
Number in Class: 60
Percent Donors: 42%
Joseph P. Archie, Jr., M.D., Raleigh, NC
George W. Bensch, M.D., Stockton, CA
Lucius Blanchard, Jr., M.D., Las Vegas, NV
Philip D. Coleman, M.D., Chapel Hill, NC
Alan Davidson III, M.D., Greensboro, NC
Terry D. Golden, M.D., Atlanta, GA
Theodora L. Gongaware, M.D., Savannah, GA
Joseph W. Griffin, Jr., M.D., Augusta, GA
W. F. Hancock, Jr., M.D., Burlington, NC
William O. Kearse, Jr., M.D., Lubbock, TX
John L. Kirkland III, M.D., Houston, TX
Edward W. Kouri, M.D., Charlotte, NC
Jerold E. Lancourt, M.D., Dallas, TX
Frederick M. S. McConnel, M.D., Atlanta, GA
Rutherford B. Polhill, Jr., M.D., Birmingham, AL
David M. Rubin, M.D., Greensboro, NC
Carole W. Samuelson, M.D., Birmingham, AL
John E. Schweistris III, M.D., Savannah, GA
E. Franklin Shavender, M.D., Durham, NC
Robert B. Shearin, M.D., Rockville, MD
George S. Stretcher, M.D., Spartanburg, SC
William S. Teachey, M.D., Virginia Beach, VA
Robert C. Vanderberry, Jr., M.D., Raleigh, NC
J. Allen Whitaker III, M.D., Wilson, NC
Jerry C. Woodard, M.D., Wilson, NC

CLASS OF 1969
Number in Class: 62
Percent Donors: 56%
H. Wallace Baird, M.D., Greensboro, NC
P. Eugene Brown, M.D., Hickory, NC
J. Hugh Bryan, M.D., Fayetteville, NC
W. Woodrow Burns, Jr., M.D., Chapel Hill, NC
Don C. Chaplin, M.D., Burlington, NC
Bertram W. Coffer, M.D., Raleigh, NC
R. Samuel Cromartie III, M.D., Ormand Beach, FL
Bruce A. Dalton, Jr., M.D., Hurdle Mills, NC
C. Ellis Fisher, M.D., Gastonia, NC
Hugh J. Grant, Jr., M.D., Raleigh, NC
Thomas R. Griggs, M.D., Hillsborough, NC
G. Patrick Guiteras, M.D., Chapel Hill, NC
Edward W. Haselden, Jr., M.D., Columbia, SC
Ada D. Hayes, M.D., Hendersonville, TN
John G. Johnston, M.D., Charlotte, NC
Dr. and Mrs. William R. Jordan, Fayetteville, NC
Charles Dayton Kirk, M.D., Raleigh, NC
Henry J. MacDonald, Jr., M.D., New Bern, NC
R. James MacNaughton, Jr., M.D., Greenville, SC
Donald M. MacQueen III, M.D., Wilmington, NC
Cynthia S. McMillan, M.D., Farragut, TN
David W. Pearsall, Jr., M.D., Greenville, NC
H. Harris Pittman, M.D., Cave Springs, GA
James S. Powers, M.D., Bethesda, MD
William Thomas Rowe, M.D., Greensboro, NC
Joseph D. Russell, M.D., Wilson, NC
J. Franklin Sanderson, Jr., M.D., Hampton, VA
David S. Sheps, M.D., Johnson City, TN
James W. Snyder, M.D., Wilmington, NC
Karen C. Sorrels, M.D., Midlothian, VA
Franklin T. Tew, M.D., Chapel Hill, NC
John C. Triplett, M.D., M.P.H., Gaithersburg, MD
Nelson B. Watts, M.D., Atlanta, GA
C. Thomas Whiteside, M.D., Mt. Pleasant, SC
Russell E. Williams, Jr., M.D., Wichita Falls, TX

CLASS OF 1970
Number in Class: 71
Percent Donors: 46%
William C. Allsbrook, Jr., M.D., Martinez, GA
Charles M. Almond, M.D., Wilmington, NC
H. Clifford Baggett, Jr., M.D., Rocky Mount, NC
Robert G. Blair, Jr., M.D. and Pauline M. Blair, M.D., New Bern, NC
William E. Byrd, M.D., Roanoke Rapids, NC
Harold H. Cameron, M.D., New Bern, NC
Charles E. Crumley, M.D., Lincolnton, NC
H. Shelton Earp III, M.D. and Joanne Earp, Ph.D., Chapel Hill, NC
Richard M. Freeman, M.D., Opelika, AL
James O. Goodwin, M.D., Henderson, NC
John E. Hanna, M.D., Sarasota, FL
Joseph M. Harmon, M.D., Mount Pleasant, SC
John F. Hartness, Jr., M.D., Monroe, NC
W. Borden Hooks, Jr., M.D., Mount Airy, NC
Donald D. Howe, M.D., Gastonia, NC
Dr. and Mrs. Mark G. Janis, Seal Beach, CA
James J. Jenkins, M.D., Saint Louis, MO
C. Bryan Koon, Jr., M.D., Durham, NC
Frederick G. Kroncke, Jr., M.D., Rocky Mount, NC
Thomas W. Nicholson, M.D., Washington, NC
R. Kirby Primm, M.D., Wenatchee, WA
David A. Rendleman III, M.D., Raleigh, NC
Thomas A. Roberts, Jr., M.D., Charlotte, NC
James B. Sloan, M.D., Wilmington, NC
Charles E. Thompson, M.D., New Rochelle, NY
T. Reed Underhill, M.D., New Bern, NC
Ross L. Vaughan, M.D., Raleigh, NC
E. Lance Walker, M.D., Littleton, CO
William J. Weatherly, M.D., Greensboro, NC
H. Grey Winfield III, M.D., Hickory, NC
James E. Winslow, Jr., M.D. and Cherri D. Hobgood, M.D., Hurdle Mills, NC
John W. Zirkle, M.D., Jefferson City, TN

CLASS OF 1971
Number in Class: 74
Percent Donors: 30%
Robert A. Bashford, M.D., Chapel Hill, NC
Coleman D. Carter, M.D., Charlotte, NC
James S. Coxe III, M.D., Raleigh, NC
James S. Fulghum III, M.D. and Mary Susan Fulghum, M.D., Raleigh, NC
Joe E. Gaddy, Jr., M.D., Winston-Salem, NC
W. Ray Gammon, M.D., Greenville, NC
W. Randolph Grigg, M.D., Raleigh, NC
William D. Kassens, Jr., M.D., Wilmington, NC
Michael R. Knowles, M.D., Chapel Hill, NC
Kathryn R. Kuykendal, Cincinnati, OH
Jerrill L. McEntire, M.D., Old Fort, NC
Frederick S. Neuer, M.D., Emporia, KS
William B. Pittman, M.D., Rocky Mount, NC
R. Randolph Powell, M.D., Fox Point, WI
John O. Reynolds, Jr., M.D., Salisbury, NC
Kenneth L. Sheffield, M.D., Roswell, NM
James A. Shivers, M.D., Asheville, NC
Sara H. Sinal, M.D., Winston-Salem, NC
John P. Surratt, M.D., Clinton, NC
J. P. Van Dorsten, M.D., Charleston, SC
George C. Venters, M.D., Raleigh, NC

CLASS OF 1972
Number in Class: 71
Percent Donors: 37%
Robert L. Barnes III, M.D., Knoxville, TN
Stephen C. Blank, Atlanta, GA
Peter R. Bream, M.D., Jacksonville, FL
L. Franklin Cashwell, Jr., M.D., Greensboro, NC
Peter G. Chikes, M.D., Concord, NC
W. Andrew Cook, M.D., Houston, TX
Randolph B. Cooke, M.D., Owego, NY
J. McNeill Gibson, M.D., Davidson, NC
Karen W. Green, M.D., Holden, MA
Alger V. Hamrick III, M.D., Raleigh, NC
L. Clayton Harrell III, M.D., Charlotte, NC
Hubert B. Haywood III M.D., Raleigh, NC
F. Christian Heaton, M.D., Raleigh, NC
John T. Henley, Jr., M.D., Fayetteville, NC
John S. Hughes, M.D., New Haven, CT
Thomas G. Irons, M.D., Greenville, NC
Joseph A. Jackson, M.D., Pilot Mountain, NC
Howard S. Kroop, M.D., Woodbury, NJ
William E. Long, M.D., Newton, NC
John R. Lurain III, M.D., Oak Park, IL
John T. Manning, Jr., M.D., Houston, TX
James S. Reed, M.D., Gig Harbor, WA
Ronald J. Stanley, M.D., Boone, NC
William C. Tate II, M.D., Banner Elk, NC
Selman I. Welt, M.D., Odessa, TX
J. Richard Young, M.D., Sherborn, MA

CLASS OF 1973
Number in Class: 82
Percent Donors: 28%
Charles E. Baker, Jr., M.D., Crossnore, NC
Stephen A. Bernard, M.D., Chapel Hill, NC
Stephen B. Billick, M.D., New York, NY
Jesse A. Blackman, M.D., P.A., Fremont, NC
Nady M. Cates III, M.D., Chapel Hill, NC
Franklin S. Clark III, M.D., Fayetteville, NC
Frank E. Davis III, M.D., Roanoke Rapids, NC
John E. Estes, Jr., M.D., Zionville, NC
E. Ruffin Franklin, Jr., M.D., Raleigh, NC
David A. Grimes, M.D., Chapel Hill, NC
J. Michael Harper, M.D., Charlotte, NC
E. Earl Jenkins, Jr., M.D., Rock Hill, SC
J. Charles Jennette, M.D., Chapel Hill, NC
Dennis R. Johnson, M.D., York, PA
Elisabeth Anderson Keller, M.D. and David Savitz, M.D., Brookline, MA
James N. Martin, Jr., M.D., Ridgeland, MS
James L. Maynard, M.D., Rock Hill, SC
Gary S. Niess, M.D., Charlotte, NC
David R. Patterson, M.D., Greensboro, NC
W. McLean Reavis, Jr., M.D., Lakeland, FL
David E. Sharp, M.D., Ph.D., Bear Creek, PA
Hugh G. Shearin, Jr., M.D., Raleigh, NC
Robert R. Walther, M.D., New York, NY

CLASS OF 1974
Number in Class: 95
Percent Donors: 44%
Robert M. Alsup, M.D., Winston-Salem, NC
Charles B. Beasley, M.D., Kinston, NC
Thomas W. Bouldin, M.D., Chapel Hill, NC
Douglas C. Brewer, M.D., Elm City, NC
Donald C. Brown, M.D., Cary, NC
David R. Clemmons, M.D., Chapel Hill, NC
George W. Colclough, M.D., Lexington, KY
David L. Coppedge, M.D., Braintree, MA
William F. Cox, Jr., M.D., Evergreen, CO
Paul M. Deaton, Jr., M.D., Charleston, SC
Thomas H. Dukes III, M.D., Charleston, SC
Donna E. Frick, M.D., Chapel Hill, NC
Margaret A. Harper, M.D., Winston-Salem, NC
Stephen S. Hawkins, M.D., Hixson, TN
C. Norman Hurwitz, M.D., Fairfield, OH
Joseph M. Jenkins, M.D., Fayetteville, NC
William H. Katz, M.D., Auburn, ME
Stephanie L. Kodack, M.D., Austin, TX
John A. Lang III, M.D., Raleigh, NC
William D. Lee, Jr., M.D., Raleigh, NC
Charles Frank Margolis, M.D. and Jennifer Smith Margolis, M.D., Wyoming, OH
Sheppard A. McKenzie III, M.D., Raleigh, NC
Daniel H. McNeill, Jr., M.D., Baton Rouge, LA
William H. Moretz, Jr., M.D., Augusta, GA
Forest P. Newman III, M.D., San Antonio, TX
H. Clifton Patterson III, M.D., Raleigh, NC
Harold C. Pollard III, M.D., Winston-Salem, NC
Jan H. Postma, Jr., M.D., Spartanburg, SC
C. Fredric Reid, M.D., Winston-Salem, NC
David A. Rockwell, M.D., Goldsboro, NC
Suzanne V. Sauter, M.D., Chapel Hill, NC
Charles W. Smith, Jr., M.D., Little Rock, AR
Roger L. Snow, M.D., Boston, MA
David E. Tart, M.D., Hickory, NC
David T. Tayloe, Jr., M.D., Goldsboro, NC
Larry E. Warren, M.D., Chapel Hill, NC
Charles H. Weiss, M.D., Newton, MA
Allen R. Wenner, M.D., West Columbia, SC
William G. Wilson, M.D., Charlottesville, VA
Kenneth H. Wilson, M.D., Chapel Hill, NC
D. Bryan Young, M.D., Shelby, NC

CLASS OF 1975
Number in Class: 108
Percent Donors: 31%
William J. Blackley, M.D., Elkin, NC
Julian T. Brantley, Jr., M.D., Vienna, VA
Julian C. Brantley III, M.D., Rocky Mount, NC
Samuel L. Bridgers II, M.D., Woodbridge, CT
E. Drew Bridges, M.D., Wake Forest, NC
Benjamin Douglas, M.D., Dillsboro, NC
William H. Edwards, M.D. and Susan T. Edwards, M.D., Norwich, VT
Frank B. Fondren III, M.D., Mobile, AL
Richard F. Fox, M.D., Greensboro, NC
M. Darvy Fuller, Jr., M.D., Las Cruces, NM
Donald G. Gregg, M.D., Greenville, SC
Eric H. Helsabeck, M.D., Asheboro, NC
Ernest J. Krug III, M.D., Rochester, MI
David S. Lennon, M.D., Charlotte, NC
Howard A. McMahan, M.D., Marietta, GA
Michael W. Meriwether, M.D., Sarasota, FL
Frank H. Moretz, M.D., Asheville, NC
Wade H. Moser, Jr., M.D., Raleigh, NC
Dan A. Myers, M.D., Kinston, NC
W. Ronald Neal, M.D., Greensboro, NC
Henry E. Parfitt, Jr., M.D., Fayetteville, NC
Jerry E. Patterson, M.D., Chapel Hill, NC
James E. Peacock, Jr., M.D., Winston-Salem, NC
Charles G. Pierce, M.D., Ahoskie, NC
Hoke D. Pollock, M.D., Wilmington, NC
Joseph R. Pringle, Jr., M.D., Burlington, NC
W. Paul Sawyer, M.D., Tallahassee, FL
Carol B. Teutsch, M.D., Gwynedd Valley, PA
Hendricks H. Whitman III, M.D., New Vernon, NJ
E. Brooks Wilkins, M.D., Raleigh, NC
James W. Winslow, M.D., Tarboro, NC
Kenneth H. Winter, M.D., Greensboro, NC
Geraldine N. Wu, M.D., Cincinnati, OH
Michael H. Young, M.D., Asheville, NC

1999-2000 Loyalty Fund Scholarship and Merit Award recipients.

CLASS OF 1976
Number in Class: 120
Percent Donors: 30%
Brenda L. Adams-Hudson, M.D., Moore, SC
Paul D. Barry, M.D., Greensboro, NC
Robert G. Berger, M.D., Chapel Hill, NC
Jean C. Bolan, M.D., Washington, DC
Alexis C. Bouteneff, M.D., Litchfield, CT
Richard A. Bowerman, M.D., Ann Arbor, MI
Barbara J. Campbell, M.D., Somerset, PA
Marjorie B. Carr, M.D., Raleigh, NC
Edward L. Cattau, Jr., M.D., Germantown, TN
William H. Gamble, M.D., Greensboro, NC
Rita L. Gunter, M.D., Fayetteville, NC
Stephen J. Hawes, Jr., M.D. and Anne Colclough Hawes, M.D., Charlotte, NC
Charles H. Hicks, M.D., Wrightsville Beach, NC
J. Lee Hoffer, M.D., Temple, TX
Robert H. Hutchins, M.D., Wilmington, NC
Walker A. Long, M.D., Chapel Hill, NC
Ross D. Lynch, M.D., Columbia, SC
B. Douglas Morton III, M.D., Macon, GA
Robert S. Moskalik, M.D., Coldwater, MI
E. Paul Nance, Jr., M.D., Nashville, TN
L. Andrew Nassef, Jr., M.D., Danville, PA
David B. Neeland, M.D., Montgomery, AL
Harold A. Nichols, M.D., P.A., Greensboro, NC
Kathleen Gallagher Oxner, M.D., Greenville, SC
James S. Parsons, M.D., Raleigh, NC
Douglas C. Privette, M.D., Greenville, NC
S. Harvey Rakestraw, M.D., Tyrone, GA
Sheldon M. Retchin, M.D., Midlothian, VA
Tamara L. Sanderson, M.D., Lexington, KY
Robert S. Shapiro, M.D., Athens, GA
David F. Silver, M.D., Charlottesville, VA
Robert J. Tallaksen, M.D., Morgantown, WV
F. Ray Thigpen, M.D., Whiteville, NC
John W. Uribe, M.D. and Nancy M. Reierson, M.D., Coconut Grove, FL
L. Patrick Warren, Jr., M.D., Wilmington, NC
Richard L. Wing, M.D., Charlotte, NC
Sabra A. Woodard, M.D., Raleigh, NC

CLASS OF 1977
Number in Class: 123
Percent Donors: 28%
Michael L. Barringer, M.D., Shelby, NC
Clinton A. Briley, Jr., M.D., Wrightsville Beach, NC
Francis S. Collins, M.D., Ph.D., Rockville, MD
W. Sidney Comer, Jr., M.D., Raleigh, NC
Rafael F. Coutin, M.D., Corpus Christi, TX
Joseph E. Craft, M.D., Guilford, CT
Allen J. Daugird, M.D., Chapel Hill, NC
Meyer E. Dworsky, M.D., Huntsville, AL
Wayne D. Fogle, M.D., Knoxville, TN
Arthur L. Fritz, M.D., Exmore, VA
William B. Harden, M.D., Bluefield, WV
C. Frederick Irons, III, M.D., Chapel Hill, NC
William L. Isley, M.D., Kansas City, MO
George M. Johnson, M.D., Charleston, SC
L. Lyndon Key, Jr., M.D. and Janice Dixon Key, M.D., Hollywood, SC
Michael E. King, M.D., Winston-Salem, NC
Stephen Ray Mitchell, M.D., Alexandria, VA
Warren H. Moore, M.D., Sugar Land, TX
H. Grady Morgan, Jr., M.D., Wilmington, NC
Pamela A. Nelson, M.D., Raleigh, NC
Scott H. Norwood, M.D., Tyler, TX
Ruth C. Penn, M.D., Eldersburg, MD
Michael L. Pool, M.D., Knoxville, TN
Duncan S. Postma, M.D., Tallahassee, FL
Catherine M. Radovich, M.D., Gallup, NM
Keith M. Ramsey, M.D., Mobile, AL
William H. Ryan III, M.D., Dallas, TX
Gretchen D. Sampson, M.D., Los Angeles, CA
Samuel T. Selden, M.D., Chesapeake, VA
Howard J. Stang, M.D., Stillwater, MN
John H. Stanley, Jr., M.D., Wilmington, NC
Michael M. Ward, M.D., Wilmington, NC
James S. Wells, Jr., M.D., Hillsborough, NC

CLASS OF 1978
Number in Class: 124
Percent Donors: 23%
Jean W. Carter, M.D., Raleigh, NC
Cynthia D. Conrad, M.D., Ph.D., Branford, CT
Paul W. F. Coughlin, M.D., High Point, NC
John D. Davis, Jr., M.D., Blowing Rock, NC
Forrest R. Dolly, M.D., Tallahassee, FL
Allison J. Dudley, M.D., Charlotte, NC
Martha L. Elks, M.D., Atlanta, GA
John Bennett Gordon III, M.D. and Jane C. Burns, M.D., La Jolla, CA
Jeffrey A. Margolis, M.D., Tappahannock, VA
Mark D. Monson, M.D., Spartanburg, SC
Peter J. Morris, M.D., M.P.H., Fuquay Varina, NC
Michael Y. Parker, M.D., Raleigh, NC
Thomas L. Pope, Jr., M.D., Mount Pleasant, SC
Donna L. Prather, M.D., Carrboro, NC
Richard Lee Rumley, M.D. and Susan Downer Foreman, M.D., Greenville, NC

Peter A. Schlesinger, M.D., St. Paul, MN
Deborah A. Scott, M.D., Charlotte, NC
Stuart C. Segerman, M.D., Atlanta, GA
Thomas C. Shea, M.D. and Katherine M. Shea, M.D., Chapel Hill, NC
Susan T. Snider, M.D., Burnsville, NC
Alan D. Stiles, M.D., Chapel Hill, NC
Michael H. Thomason, M.D., Davidson, NC
Charles F. Timmons, Jr., M.D., Dallas, TX
Gregory H. Tuttle, M.D., Mebane, NC
William A. Walker, M.D., Charlotte, NC
Richard C. Worf, M.D., Winston-Salem, NC

CLASS OF 1979
Number in Class: 127
Percent Donors: 38%
Andrew H. Balder, M.D., Longmeadow, MA
Thomas A. Barringer III, M.D., Charlotte, NC
Doris Batts-Murray, M.D., Raleigh, NC
H. Robert Brashear III, M.D., Crozet, VA
Stanley J. Bunas, M.D., Bellevue, WA
R. William Bynum IV, M.D., Wilson, NC
Gail M. Capel, M.D., Schenectady, NY
D. Franklin Craig, M.D., Burnsville, NC
Walter E. Daniel, Jr., M.D., Raleigh, NC
S. Diane Davis, M.D., Colorado Springs, CO
Elizabeth A. Eagle, M.D., Greensboro, NC
Allen R. Edwards, M.D. and Patricia K. Hill, M.D., Statesville, NC
Sharon M. Foster, M.D., Raleigh, NC
Gregory M. Gillette, M.D., Roland, AR
Charles O. Harris, M.D. and Diane Scott Harris, M.D., Chapel Hill, NC
Lawrence H. Hooper, Jr., M.D., Windsor, MO
Kent M. Kalina, M.D., Mooresville, NC
John C. Keifer, M.D. and Anne Turner Keifer, M.D., Chapel Hill, NC
David W. Kohl, M.D., Largo, FL
John M. Lafferty, M.D., Valdese, NC
Alfred B. Little, M.D., Greensboro, NC
Charles E. Lownes, M.D., Greensboro, NC
Julia E. McMurray, M.D., Madison, WI
Darlyne Menscer, M.D., Charlotte, NC
Harold P. Overcash, M.D., Raleigh, NC
Christian E. Paletta, M.D., St. Louis, MO
Susan Pate, M.D., Raleigh, NC
Lawrence H. Pearson, M.D., Shelby, NC
James G. Peden, Jr., M.D., Greenville, NC
Alan M. Rauch, M.D., Monticeto, CA
Charles N. Reed, M.D., Hickory, NC
J. Mark Rowles, M.D., Atlanta, GA
James L. Sanderford, Jr., M.D., Lewisville, NC
Steven R. Sherwin, M.D., Old Westburg, NY
William L. Stewart, M.D., Southern Pines, NC
R. Mark Stiegel, M.D., Charlotte, NC
Margery S. Sved, M.D., Raleigh, NC
Frances R. Thomas, M.D., Chicago, IL
Douglas B. Thomson, M.D., Bowling Green, KY
Paul A. Vadnais, M.D., Charlotte, NC
Lynn E. Wesson, M.D., Raleigh, NC
John M. Westafer, M.D. and Anita Sloan Westafer, M.D., Gulf Breeze, FL
Mack W. White III, M.D., Charlotte, NC
C. Phillip Whitworth, M.D., Forest City, NC
Larry T. Williams, M.D., Hickory, NC
Leonard S. Wojnowich, M.D., Savannah, GA
O. Barry Wynn, M.D. and Michelle Hewlett Wynn, M.D., Charlotte, NC

CLASS OF 1980
Number in Class: 158
Percent Donors: 22%
Edward H. Bertram III, M.D., Charlottesville, VA
Roger D. Billica, M.D., Houston, TX
Wilbur B. Carter, Jr., M.D., Chapel Hill, NC
Lauren E. Cosgrove, M.D., Potomac, MD
Phillip K. Dorton, M.D., Thomasville, NC
Ernest B. Eason, M.D., Burlington, NC
Patricia T. Edkins, M.D., Chapel Hill, NC
W. Wells Edmundson, M.D., Raleigh, NC
Walter E. Egerton III, M.D., Aberdeen Proving Grounds, MD
C. O'Neil Ellis, M.D., Matthews, NC
Barry J. Freeman, M.D., Pacific Palisades, CA
John C. Gudger, M.D., Swansboro, NC
David D. Gutterman, M.D., Milwaukee, WI
Sandra K. Haigler, M.D., Lexington, KY
Catherine J. Harris, M.D., Wilmington, DE
Carl L. Haynes, Jr., M.D., Kinston, NC
Mark A. Helvie, M.D., Ann Arbor, MI
J. Patrick Holland, M.D., Winston-Salem, NC
Daniel M. Lewis, M.D., Charlotte, NC
William L. Lowe, Jr., M.D., Winnetka, IL
Christine C. Mahvi, M.D., Middleton, WI
Steven K. McCombs, M.D., Chapel Hill, NC
J. Eugene McMurry, Jr., M.D., Wilmington, NC
T. Michael O'Shea, Jr., M.D., Winston-Salem, NC
Dwight D. Perry, M.D. and Veronica J. Ray, M.D., Durham, NC
R. Brookes Peters, IV, M.D., Tarboro, NC
Bayard L. Powell, M.D., Winston-Salem, NC
Petrie M. Rainey, M.D., Cheshire, CT
Lyle S. Saltzman, M.D., Melbourne, FL
Mark A. Shapiro, M.D., Port Jefferson Station, NY
James P. Srebro, M.D., Napa, CA
Benjamin D. Thomas, Jr., M.D., Atlanta, GA
Donna W. Tilson, M.D., Louisville, KY
Jonathan P. Tolins, M.D. and Margo F. Tolins, M.D., Minneapolis, MN
Kenneth W. Wilkins, Jr., M.D., New Bern, NC

CLASS OF 1981
Number in Class: 159
Percent Donors: 32%
G. Williams Adams, M.D. and Deborah L. Tussing, M.D., Severna Park, MD
Paul S. Andrews, M.D., Chapel Hill, NC
G. Tillman Bailey III, M.D., Rocky Mount, NC
Alix L. Baxter, M.D., Gainesville, FL
Craig R. Bennett, M.D., North Wilkesboro, NC
Kenneth R. Blau, M.D., Sarasota, FL
Stephen E. Buie, M.D., Asheville, NC
Graham W. Bullard, M.D., Cornelius, NC
Michael C. Burnette, M.D., Tampa, FL
Lena W. Butterworth, M.D., Charlotte, NC
David M. Cowherd, M.D., Southern Pines, NC
David A. Crews, M.D., Greensboro, NC
David M. Deitz, M.D., Olympia, WA
Amelia F. Drake, M.D., Chapel Hill, NC
Frederick M. Dula, Jr., M.D., Salisbury, NC
David A. Goff, M.D., Raleigh, NC
Terry R. Gordon, M.D., Detriot, MI
William M. Herndon, Jr., M.D., Charlotte, NC
Edward K. Isbey III, M.D., Asheville, NC
G. Wallace Kernodle, Jr., M.D., Burlington, NC
Douglas P. Kiel, M.D., Medfield, MA
Garland C. King, M.D., Franklin, NC
Alan S. Kopin, M.D. and Elizabeth S. Kopin, M.D., Wellesley Hills, MA
Robert G. Laney III, M.D., Shelby, NC
Leigh S. Lehan, M.D., Raleigh, NC
Robert E. Littleton, M.D., Raleigh, NC
Jane Lysko, M.D., Asheville, NC
Saundra A. Maass-Robinson, M.D., East Point, GA
John R. Mangum, M.D., Sanford, NC
William H. Merwin, Jr., M.D., Knoxville, TN
W. Joseph Messick, M.D. and Catherine H. Messick, M.D., Huntersville, NC
Stephen I. Moore III, M.D., Raleigh, NC
Charles B. Nemeroff, M.D., Ph.D., Atlanta, GA
Larry C. Nickens, M.D., Goldsboro, NC
William B. Olds, M.D., Roxboro, NC
Paul M. Parker, M.D. and Ruth M. Parker, M.D., Atlanta, GA
Peter L. Pleasants, M.D., Providence, RI
Larry B. Poe, M.D., Binghamton, NY
Carol R. Reid, M.D., Wilkesboro, NC
Timothy G. Saunders, M.D., Charlotte, NC
Thomas J. Seely, M.D., Summerfield, NC
Jeannette F. Stein, M.D., Durham, NC
Elwood E. Stone, Jr., M.D., Cedar Rapids, IA
William W. Stuck, M.D., Columbia, SC
James D. Whinna, M.D., Monroe, NC
Susan M. Whitehead, Mancos, CO
Phillip M. Williford, M.D., Winston-Salem, NC
Warden L. Woodard III, M.D., Charlotte, NC

CLASS OF 1982
Number in Class: 153
Percent Donors: 20%
John C. Adams, M.D., Matthews, NC
Joseph L. Albright, Jr., M.D., Charlotte, NC
Mary John Baxley, M.D., Greensboro, NC
Peter H. Bradshaw, M.D., Hickory, NC
Nancy C. Chescheir, M.D., Chapel Hill, NC
Rick J. Cornella, M.D., Myrtle Beach, SC
Cindy S. Dieringer, M.D., Camden, SC
Steven A. Dingeldein, M.D., Burlington, NC
Lawrence M. Fleishman, M.D., Charlotte, NC
Charles J. Fulp, Jr., M.D., Atlanta, GA
Manning M. Goldsmith III, M.D., Savannah, GA
Thomas W. Graham, M.D., Carrboro, NC
Sarah W. Hudson, M.D., Elizabeth City, NC
Stephen M. Hux, M.D., Winston-Salem, NC
Timothy O. Jenkins, M.D., Concord, NC
Beverly N. Jones III, M.D., Winston-Salem, NC
Kathi J. Kemper, M.D., Boston, MA
Angela Kendrick, M.D., Aloha, OR

Medical Alumni Association President Gordon LeGrand, MD '65 (left) joins some of the First, Fifth and Tenth-Year Associates.

Barbara A. King, M.D., Bakersville, NC
Marian S. Kirkman, M.D., Carmel, IN
Mary T. Korytkowski, M.D., Pittsburgh, PA
David W. Lee, M.D., Tarboro, NC
Barbara A. Lowe, M.D., Lillington, NC
James T. Massagee, M.D., Greensboro, NC
Howard D. McClamrock, M.D., Baltimore, MD
Horace W. Miller IV, M.D., Fayetteville, NC
Mark D. Peacock, M.D., Mooresville, NC
Hal D. Safrit, M.D., Chapel Hill, NC
Eric D. Van Tassel, M.D., Asheville, NC
Stanley A. Wilkins, Jr., M.D., Raleigh, NC

CLASS OF 1983
Number in Class: 150
Percent Donors: 23%
Ann G. Archer-Cobb, M.D., Kensington, MD
James A. Bryan III, M.D., Chapel Hill, NC
Donald W. Carringer, M.D., Robbinsville, NC
Vincent K. Cheek, M.D., Greensboro, NC
Douglas W. Clark, M.D., Chapel Hill, NC
R. Carter Clements, M.D., Oakland, CA
Douglas A. Cotanche, Ph.D., Southborough, MA
Ronald W. Cottle, M.D., Florence, SC
Cristin B. Cullander, M.D., Eugene, OR
Thomas C. Darrell, M.D., Fuquay-Varina, NC
Phillip S. Dickey, M.D., Guilford, CT
Pamela S. Dockery-Howard, M.D., Winston-Salem, NC
Mary Anne Dooley, M.D., Chapel Hill, NC
James L. Everette, Jr., M.D., Dover, DE
Robert L. Green, Jr., M.D., Lynchburg, VA
Kimberly S. Haltiwanger, M.D., Setauket, NY
Robert N. Headley, Jr., M.D., Lynchburg, VA
John M. Herion, M.D., Wilmington, NC
Thomas T. Hunter, M.D., Jacksonville, NC
Mark W. Jacokes, M.D., Nashville, TN
Barbara E. Johnston, M.D., New York, NY
James D. Ladd, M.D., Asheville, NC
Franklin W. Maddux, M.D. and Dugan W. Maddux, M.D., Danville, VA
Barbara B. McPherson, M.D., Greensboro, NC
Paula F. Miller, M.D., Chapel Hill, NC
Kim A. Morgan-Myers, M.D., Niger, West Africa
James C. Osborne, M.D., Greensboro, NC
Catherine C. Parrish, M.D., Ellicott City, MD
Joan T. Perry, M.D., Kinston, NC
Eugene R. Soares, M.D., Dover, NH
C. Stephen Stinson, M.D., Winston-Salem, NC
Deborah L. Taylor, M.D., Hilliard, OH
Gregory A. Underwood, M.D., Charlotte, NC
Mary C. Wasko, M.D., Pittsburgh, PA
Lawrence M. Wyner, M.D., Charleston, WV

CLASS OF 1984
Number in Class: 144
Percent Donors: 32%
James P. Alexander, Jr., M.D., Decatur, GA
D. Antonio Bell, M.D. and Amelia F. Bell, M.D., Cornelius, NC
Phillip B. Chappell, M.D., Guilford, CT
Patricia F. Culhane, M.D., Campbell, CA
Alain T. Drooz, M.D., Columbus, OH
Charles L. Ewell, Jr., M.D., Bexley, OH
Lydia J. Franks, M.D., Butner, NC
Stephen E. Gitelman, M.D., San Francisco, CA
Charles C. Goodno, M.D., Carrboro, NC
Ronald P. Hargrave, M.D., Mt. Pleasant, SC
James R. Harper, Jr., M.D., Wilmington, NC
Janice R. Hossler, M.D., Columbia, SC
Paul A. James, M.D., Williamsville, NY
Michael J. Knight, M.D., North Hampton, NH
Marcia A. Koomen, M.D., Chapel Hill, NC
Elizabeth W. Koonce, M.D., Charlotte, NC
Jo M. Marturano, M.D., Lexington, SC
Robert W. McMurray, Jr., M.D., Brandon, MS
R. Glen Medders, M.D., Raleigh, NC
Jane H. Murray, M.D., Durham, NC
Howard W. Newell, Jr., M.D., Goldsboro, NC
Christopher C. Ng, M.D., Nashville, TN
Dale E. Nichols, M.D., Knoxville, TN
R. Claiborne Noble, M.D., Raleigh, NC
Douglas W. Peed, M.D., Chapel Hill, NC
Thomas M. Price, M.D., Greenville, SC
Ronald E. Pruitt, M.D., Nashville, TN
Alfred L. Rhyne III, M.D., Charlotte, NC
Richard G. Saleeby, Jr., M.D. and Jackie A. Newlin-Saleeby, M.D., Raleigh, NC
Robert A. Sammons, Jr., M.D., Grand Junction, CO
David L. Sappenfield, M.D., Durham, NC
Paul W. Sasser, M.D., Eden, NC
Mary A. Saunders, M.D., Springfield, IL
John M. Schoffstall, M.D., Glen Mills, PA
Thomas C. Spangler, M.D., Winston-Salem, NC
Sharon R. Stephenson, M.D., Cary, NC
Denny C. Tate, M.D., Burlington, NC
Jean G. Taylor, M.D., Greensboro, NC
Cathy W. Thomas, M.D., Chapel Hill, NC
Paul E. Viser, M.D., Clinton, NC
Robert A. Wainer, M.D., Greensboro, NC
Rolf B. Wallin, M.D., Fayetteville, NC
A. Landon Wellford, M.D., High Point, NC
Robert E. Wiggins, Jr., M.D., Asheville, NC

CLASS OF 1985
Number in Class: 153
Percent Donors: 25%
H. Richard Allen, Jr., M.D., Raleigh, NC
A. Elizabeth Allen, M.D., Winston-Salem, NC
Sebastian R. Alston, M.D., Jackson, GA
S. Leonard Auman, Jr., M.D., Dallas, TX
William H. Billica, M.D., Glendale, AZ
Leslie A. Bunce, M.D., Chapel Hill, NC
Kathleen M. Clarke-Pearson, M.D., Chapel Hill, NC
Jonathan S. Cohen, M.D., Signal Mountain, TN
Laura L. Crow, M.D., Greensboro, NC
Cynthia H. Dent, M.D., Crozet, VA
Cynthia B. Dunham, M.D., Chapel Hill, NC
Kenneth E. Ferrell, Jr., M.D., Charlotte, NC
Catherine G. Fuller, M.D., Los Angeles, CA
John H. Gilmore, Jr., M.D., Chapel Hill, NC
Susan C. Hadler, M.D., Chapel Hill, NC
James J. Hardy, M.D., Charlotte, NC
Charles A. Harper, Jr., M.D., Greensboro, NC
Joel W. Hylton, Jr., M.D., Asheville, NC
Brentley D. Jeffries, M.D., Asheville, NC
Dr. Peter M. and Mrs. Rebecca A. Jordan, Greensboro, NC
David C. Joslin, M.D., Greensboro, NC
Theodore C. Kerner, Jr., M.D., Lewisville, NC
John A. Kirkland, Jr., M.D., Charlotte, NC
Mark H. Knelson, M.D., Durham, NC
James W. Lederer, Jr., M.D., Advance, NC
Elizabeth S. McCuin, M.D., Roanoke, VA
Helen L. Miller, M.D., New Haven, CT
Terrence D. Morton, Jr., M.D., Mooresville, NC
Albert R. Munn III, M.D. and Lisa F. Dejarnette, M.D., Raleigh, NC
Robert F. Murray III, M.D., Pleasant Ridge, MI
Albert J. Osbahr III, M.D., Waynesville, NC
Joel E. Schneider, M.D., Raleigh, NC
McCrae S. Smith, M.D. and Barbara Hollandsworth Smith, M.D., Greensboro, NC
S. Patrick Stuart, Jr., M.D., Winston-Salem, NC
Dorothy E. Thomas, M.D., Louisville, KY
Claudia L. Thomas, M.D., Sands Point, NY
James A. Wainer, M.D., Raleigh, NC
Bradley K. Weisner, M.D., Charlotte, NC
Sherrie E. Zweig, M.D., Chapel Hill, NC

CLASS OF 1986
Number in Class: 152
Percent Donors: 21%
Steven J. Baumrucker, M.D., Church Hill, TN
Andrew S. Blum, M.D., Elmhurst, IL
Mark A. Callahan, M.D., New York, NY
Michael D. Carter, M.D. and Mary Beth A. Carter, M.D., Wilmington, NC
William M. Clark, Jr., M.D. and Elizabeth T. Clark, M.D., Oak Park, IL
Herbert G. Garrison III, M.D. and Lynne C. Garrison, M.D., Greenville, NC
Elizabeth V. Getter, M.D., New York, NY
David C. Goff, Jr., M.D., Winston-Salem, NC
Pamela G. Hanna, M.D., Cornelius, NC
Kelvin C. Harris, M.D., Gastonia, NC
J. Curtis Jacobs, M.D., High Point, NC
Walton K. Joyner, Jr., M.D. and Sheryl S. Joyner, M.D., Raleigh, NC
Patricia C. Larocco, M.D., Willinghoro, NJ
Jonathan K. Levine, M.D., Charlotte, NC
Ari M. Lieman, M.D., Silver Spring, MD
Leslie C. McKinney, M.D., Raleigh, NC
Steven R. Olson, M.D., Greensboro, NC
David C. Pearce, M.D., Williamsburg, VA
Wayne R. Rackoff, M.D., Weston, FL
Mark C. Remington, M.D. and Jennifer P. Coursen, M.D., Mercer Island, WA
Grayson K. Rodgers, M.D., Birmingham, AL
Deborah A. Schwengel, M.D., Lutherville, MD
Cathy Jo W. Swanson, M.D., Roanoke, VA
Beverly J. Waddell, M.D., Arlington, VA
Johnathan D. Williams, M.D., Gastonia, NC
Jack H. Wolf, M.D., Graham, NC
James C. Womble, M.D., Cary, NC

CLASS OF 1987
Number in Class: 160
Percent Donors: 28%
Thomas H. Belhorn, M.D., Ph.D. and Linda R. Belhorn, M.D., Missouri City, TX
William S. Blau, M.D., Ph.D., Chapel Hill, NC
David W. Boone, M.D., Raleigh, NC
Lisa A. Christman, M.D., Raleigh, NC
Gregor G. Cleveland, M.D., Ph.D., Florence, SC
James B. Collawn, M.D., Raleigh, NC
Carey G. Cottle, Jr., M.D., Greensboro, NC
Lochrane G. Davids, M.D., Greenville, SC
I. Gordon Early, Jr., M.D., Spartanburg, SC
Beverly H. Falls, M.D., High Point, NC
Lee A. Furlong, M.D., Portland, OR
Michelle S. Hand, M.D., Battleboro, NC
W. Stuart Hartley, M.D., Charlotte, NC
Andrea N. Hass, M.D., North Palm Beach, FL
Richard H. Havunjian, M.D., Los Angeles, CA
R. Page Hudson III, M.D., Williston, VT
Dudley A. Hudspeth, M.D., Paradise Valley, AZ
Dennis N. Jacokes, M.D. and Allison L. Jacokes, M.D., Raleigh, NC
R. Lee Jobe, M.D., Raleigh, NC
J. Gregory Kaufmann, M.D., Salisbury, NC
William W. King, M.D., Wilmington, NC
David A. Klein, M.D., Chapel Hill, NC
Thomas E. Lawrence, M.D., Greensboro, NC
Gustav C. Magrinat, M.D., Greensboro, NC
Cary C. McDonald, M.D., Chapel Hill, NC
Teresa B. Melvin, M.D., Mooresville, NC
Douglas E. Mesler, M.D., Andover, MA
Sherry L. Morris, M.D., Harrisonburg, VA
Peter R. Muller, M.D., Charlotte, NC
Frances A. Owl-Smith, M.D., Farmington, NM
Thomas E. Paulson, M.D., Sacramento, CA
John M. Petitto, M.D. and Virginia B. Petitto, M.D., Gainesville, FL
Nancy W. Phifer, M.D., Burlington, NC
Lisle N. Reynolds, M.D., Birmingham, AL
Mark K. Robbins, M.D., Charlottesville, VA
Joseph E. Roberts, Jr., M.D., Pembroke, NC
C. Alan Ross, M.D., Summerfield, NC
Daniel M. Sappenfield, M.D., Charlotte, NC
James E. Edwards, M.D., and Eve G. Spratt, M.D., Isle of Palms, SC
Robyn L. Stacy-Humphries, M.D., Charlotte, NC
William R. Sutton, M.D., Wilmington, NC
Jonathan J. Weiner, M.D., Durham, NC
Paul A. Young, M.D., APO, AE

CLASS OF 1988
Number in Class: 151
Percent Donors: 23%
Jon P. Brisley, M.D., Roanoke, VA
J. Craig Charles, M.D., Winston-Salem, NC
Jack M. Cole, M.D., Moore, SC
Debra L. Coles, M.D., Charlotte, NC
Sara H. Collins, M.D., Wilmington, NC
Peter G. Dalldorf, M.D., Greensboro, NC
Keith A. Davis, M.D., San Diego, CA
Paul R. Eason, M.D. and Margie B. Eason, M.D., Martinsville, VA
Gail Q. Eddens, M.D., Leonia, NJ

Kirsten G. Girkins, M.D., Charlotte, NC
David C. Hillsgrove, M.D., Mooresville, NC
Hunter A. Hoover, M.D., Charlotte, NC
Sally S. Ingram, M.D., Chapel Hill, NC
David L. Ingram, M.D., Chapel Hill, NC
C. David Johnson, M.D., Asheville, NC
Kathryn P. King, M.D., Carrboro, NC
Hannah R. Krigman, M.D., Galveston, TX
Ritsu Kuno, M.D., Midlothian, VA
Jane M. Laco, M.D., Plymouth, MN
Stuart J. Levin, M.D., Raleigh, NC
Pamela D. Love, M.D., Durham, NC
William S. McMahon, Jr., M.D., Homewood, AL
Catherine L. Munson, M.D., Fort Mill, SC
Philip J. Nahser, Jr., M.D., Greensboro, NC
Charles E. Parke, M.D., Greenville, SC
Mahrad Paymani, M.D. and Marjorie D. Paymani, M.D., Pittsburgh, PA
John E. Perry III, M.D., Raleigh, NC
H. Kyle Rhodes, M.D., Wilmington, NC
Jeffrey E. Roller, M.D., Morganton, NC
George H. Sanders, M.D., Jamestown, NC
Michelle B. Vessely, M.D., P.C., Lake Oswego, OR
Edward W. Whitesides, M.D., Wilmington, NC

CLASS OF 1989
Number in Class: 139
Percent Donors: 30%
Paul E. Austin, M.D., Durham, NC
Scott M. Baker, M.D. and Kristin D. Baker, M.D., Concord, NC
Robert S. Berry, M.D., Greeneville, TN
L. Katherine Bliss, M.D., Efland, NC
Melva R. Bowman, M.D., Rockingham, NC
Lisa K. Burke, M.D., Marietta, GA
Margaret F. Campbell, M.D., Greensboro, NC
Shannon S. Carson, M.D., Chicago, IL
William E. Cogburn, M.D., Venice, FL
Peter N. Copsis, M.D., Matthews, NC
D. Scott Covington, M.D., Raleigh, NC
Brenda K. Cowell, M.D., Charlotte, NC
Amy H. Evans, M.D., Sewanee, TN
Daniel T. Goulson, M.D., Lexington, KY
Douglas B. Hansen, M.D., Rock Hill, SC
W. Randall Harris IV, M.D., Greensboro, NC
Jennifer L. Helton, M.D., Charlotte, NC
David E. Hoyle, M.D., D.D.S., Chapel Hill, NC
Robert S. Jablonover, M.D., Philadelphia, PA
Rosemary Jackson, M.D., Durham, NC
Thomas L. Jeffries, M.D., Raleigh, NC
Daniel M. Kaplan, M.D., Raleigh, NC
William H. Kelly, M.D., Fayetteville, NC
Charles G. Lampley IV, M.D., Shelby, NC
William L. Lawing, M.D., Winston-Salem, NC
Kenneth S. Maxwell, M.D., Winston-Salem, NC
Christopher D. McKinney, M.D., Kingsport, TN
James M. McLean, M.D., Winston-Salem, NC
Melissa M. McLeod, M.D., Norfolk, VA
Jay B. Michael, M.D., Fayetteville, NC
H. Merle Miller, M.D., Boulder, CO
Gregory F. Murphy, M.D., Greenville, NC
Rebecca M. Ryder, M.D., Chesapeake, VA
Mary D. Shearin, M.D., Jamestown, NC
Arthur J. Shepard III, M.D. and Nicole P. Shepard, M.D., Albany, GA
G. Bradley Sherrill, M.D., Greensboro, NC
J. Daniel Singer, M.D. and Patricia G. Singer, M.D., Greensboro, NC
John H. Stephenson, M.D., Roswell, GA
Christopher P. Tardif, M.D., Ponte Verda, FL
Jon P. Woods, M.D., Madison, WI
Wendell G. Yarbrough, M.D., Chapel Hill, NC

CLASS OF 1990
Number in Class: 154
Percent Donors: 19%
John T. Atkins III, M.D., San Antonio, TX
Benita F. Banks, M.D., Upper Marlboro, MD
John E. Barkley, M.D., Charlotte, NC
L. Lorraine Basnight, M.D., Greenville, NC
Robert M. Bernstein, M.D., Seattle, WA
Cedric M. Bright, M.D., Durham, NC
Martyn J. Cavallo, M.D., Nashville, TN
Catherine L. Cooper, M.D., Richmond, VA
Todd S. Cowdery, M.D., Eastsound, WA
Thomas E. Edwards, Jr., M.D., Atlanta, GA
Robert R. Ehinger, M.D., Greensboro, NC
Dianne M. Freund, M.D., Durham, NC
Robert M. Gay, Jr., M.D., High Point, NC
Susan J. Hardesty, M.D., Mount Pleasant, SC
Martin M. Henegar, M.D. and Amina Ahmed, M.D., Charlotte, NC
Mark T. Hooten, M.D., Rock Hill, SC
Dominic A. Jaeger, M.D., Burlington, VT
Leigh H. Jones, M.D., Greensboro, NC
John H. Krege, M.D., Greensboro, NC
Linda J. Matthews, M.D., Huntersville, NC
Steven F. Parker, M.D., Ashburn, VA
J. Gardiner Roddey, Jr., M.D. and Patricia K. Roddey, M.D., Charlotte, NC
Edwin H. Scott, M.D., Martinez, GA
Ami J. Shah, M.D., South Pasadena, CA
S. Kay Topple, M.D., Asheville, NC
Anne M. Traynor, M.D., Brookfield, WI
Mark W. Zimmerman, M.D. and Sherri Arthur Zimmerman, M.D., Cary, NC

CLASS OF 1991
Number in Class: 149
Percent Donors: 23%
Carrie D. Alspaugh, M.D., Morrisville, NC
Mack N. Barnes III, M.D., Birmingham, AL
Fredrick J. Brody, M.D., Chagrin Falls, OH
Robert C. Brooks, M.D., Pittsburgh, PA.
N. Elaine Broskie, M.D., Lake Grove, OR
Linda H. Butler, M.D., Raleigh, NC
Thomas R. Coleman, M.D., M.S., Lutz, FL
Robert L. Cook, M.D., Pittsburg, PA
Megan M. Davies, M.D., New Orleans, LA
Amy A. Destefano, M.D., Holly Springs, NC
Samuel C. Franklin, Jr., M.D., ,
Parlyn T. Hatch, M.D. and Robert S. Hatch, M.D., Ormond Beach, FL
Leon W. Herndon, Jr., M.D. and Yolanda V. Scarlett, M.D., Carrboro, NC
W. Barlow Inabnet III, M.D., New York, NY
Drew A. Jones, M.D., Greensboro, NC
Carol B. Kirschenbaum, M.D., Durham, NC
Michael J. Lucas, M.D., High Point, NC
Constantine G. Marousis, M.D., Sarasota, FL
James J. McCarthy, M.D., Ambler, PA
Scott R. McDuffie, M.D., Sumter, SC
Jobe C. Metts III, M.D., Mount Pleasant, SC
Richard S. Moore, M.D., Durham, NC
Linda M. Nicholas, M.D., Chapel Hill, NC
Vincent C. Phillips, M.D., Englewood, OH
Richard J. Pollard, M.D. and Helene P. Keyzer-Pollard, M.D., Gainesville, FL
Brian D. Smith, M.D., Shelby, NC
Michael F. Sobocino, M.D., Wilmington, NC
C. Anthony Staley, M.D., Richfield, NC
Gilbert R. Upchurch, Jr., M.D., Wellesley, MA
Robert C. Vogler, M.D., Raleigh, NC
Andrew B. Wallach, M.D., New York, NY
Frederick M. Weeks, M.D. and Margaret W. Weeks, M.D., Vero Beach, FL
Edward H. Wrenn, M.D., Pittsburgh, PA

CLASS OF 1992
Number in Class: 155
Percent Donors: 18%
Jorge A. Allende, Jr., M.D., Fort Collins, CO
Richard A. Bennett, M.D., Hollidaysburg, PA
J. Wesley Boyd, M.D., Northampton, MA
Nancy C. Clayton, M.D., Chapel Hill, NC
Christopher C. Cosgrove, M.D. and Billie F. Cosgrove, M.D., Wilmington, NC
John F. Ende, M.D. and Amy S. Ende, M.D., Marion, NC
Mary J. Forbes, M.D., Raleigh, NC
Laura E. Heyneman, M.D., Vancouver BC,
Pamela C. Jenkins, M.D., Lyme, NH
Michael W. Kendall, M.D., Charlotte, NC
Victoria D. Lackey, M.D., Charlotte, NC
Robert W. Larkin, Jr., M.D., Lancaster, PA
Thomas C. Logan, M.D., Owensboro, KY
Susan R. Marcinkus, M.D., Towson, MD
John C. Mason, M.D., Charlottesville, VA
William H. McAllister IV, M.D., Richmond, VA
Jennifer E. Moore, M.D., Greenbrier, TN
Deborah L. Morris, M.D., Durham, NC
Walter S. Morris III, M.D., Southern Pines, NC
Martin T. November, M.D., Cambridge, MA
Scott V. Smith, M.D., Apex, NC
Thor O. Svendsen, M.D., Charlotte, NC
Stephen L. Tilley, M.D., Chapel Hill, NC
Rita E. Treanor Plemmons, M.D., Oakwood, GA
Charles D. Wells, M.D., Seattle, WA
Bradford T. Winslow, M.D. and Lisa C. Winslow, M.D., Denver, CO
Karen S. Wood, M.D., Pinehurst, NC
William V. Yount, M.D., Chicago, IL

CLASS OF 1993
Number in Class: 156
Percent Donors: 26%
Susan M. Beck, M.D., Fort Collins, CO
Catherine C. Betor, M.D., Shelby, NC
Tony O. Blue, M.D., Fayetteville, NC
Aleta A. Borrud, M.D., Rochester, MN
Erin E. Brewer, M.D., Webster, NC
Harry L. Broome, Jr., M.D., Phoenix, AZ
David Allen Browder, M.D. and Lesley B. Browder, M.D., Rocky Mount, NC
Edward C. Brown III, M.D., Alpharetta, GA
John S. Chase, M.D., Iowa City, IA
Cynthia H. Childress, M.D., Greensboro, NC
John D. Corey, M.D., Carrboro, NC
William L. Craig III, M.D., Raleigh, NC
Carolyn J. Dalldorf, M.D., Charlottesville, VA
Cathy A. Donovan, M.D., Onamia, MN
Thomas M. Haizlip, Jr., M.D., Banner Elk, NC
Jennepher N. Hart, M.D., Charlotte, NC
Joseph I. Harwell, M.D., Sharon, MA
Raymond C. Hausch, M.D., Hermantown, MN
Angela M. Hopkins-Luna, M.D., Brooklyn, NY
Carol L. Hubbard, M.D., Boston, MA
Lauren P. Johnson, M.D., Portland, ME
C. Anthony Kim, M.D., Puyallup, WA
David T. May, M.D. and Lisa L. May, M.D., Greensboro, NC
Eugene H. Maynard, Jr., M.D., Smithfield, NC
Charles B. Teague, M.D. and Richelle L. McDaniel, M.D., Columbus, GA
Margaret R. Morris, M.D., Chapel Hill, NC
Harold Moses, Jr., M.D., Nashville, TN
John D. Phipps, M.D., Winston-Salem, NC
Eileen M. Raynor, M.D., Jacksonville, FL
Stephen E. Ross, M.D., Denver, CO
Norman E. Sharpless, M.D., Newton, MA
Holly A. Stevens, M.D., Charlotte, NC
Theodore T. Thompson, M.D., Abingdon, VA
Brian R. Webster, M.D., Wilmington, NC
William R. Westerkam, M.D., Columbia, SC
Kirk L. Woosley, M.D., Charlotte, NC
Melinda T. Wyatt, M.D., Raleigh, NC

CLASS OF 1994
Number in Class: 149
Percent Donors: 23%
Kurt C. Bachmann, M.D. and Laura H. Bachmann, M.D., Birmingham, AL
William L. Barrett, M.D., Arlington, VA
David A. Bartholomew, M.D., Chapel Hill, NC
Mary T. Bond, M.D., Fayetteville, GA
Michael E. Brame, M.D., Tampa, FL
Terrence D. Brayboy, M.D., Minneapolis, MN
Jane H. Brice, M.D., Chapel Hill, NC
Marlene S. Calderon, M.D., Ypsilanti, MI
Jennifer E. Charlton, M.D., Lynchburg, VA
Peter T. Chu, M.D., Fletcher, NC
Tasha B. Ford, M.D., Memphis, TN
Vance G. Fowler, Jr., M.D. and Amy B. Fowler, M.D., Hillsborough, NC
Amy E. Frey, M.D., Sausalito, CA
Natalie S. Gould, M.D., Oklahoma City, OK
Robin P. B. Hicks, M.D., Newton Highlands, MA
Chandra S. Hollier, M.D., Carol Springs, FL
Jeffrey C. Johnson, M.D., Raleigh, NC
Kenneth C. Lennon, M.D., Greenville, SC
Roy S. Lewis, M.D., Houston, TX
Melissa M. Lutz, M.D., Chapel Hill, NC

John L. Matthews, M.D., Durham, NC
Michael W. Meredith, M.D., Durham, NC
Lucy S. Miller, M.D., Cincinnati, OH
J. Whitman Mims, M.D., Winston Salem, NC
Carolyn P. Misick, M.D., Springfield, OH
Julia E. Norem-Coker, M.D., Fayetteville, NC
Babatunde A. Olatidoye, M.D. and Constance M. Olatidoye, M.D., Chapel Hill, NC
John W. Rusher, M.D., Raleigh, NC
Nitin P. Shenoy, M.D., Hickory, NC
Terry S. Strand, M.D., Greensboro, NC
Hilary H. Timmis, Jr., M.D., Bellevue, OH

CLASS OF 1995
Number in Class: 164
Percent Donors: 23%
Helen B. Adams, M.D., Oak Park, IL
Michael D. Applegate, M.D., Asheboro, NC
W. Scott Burgin, M.D., Pearland, TX
Peter A. Caprise, Jr., M.D., Chapel Hill, NC
Michael J. Casey, M.D., and Michele R. Casey, M.D., Winston-Salem, NC
Christina L. Catlett, M.D., Ellicott City, MD
David A. Chesnutt, M.D., Chapel Hill, NC
Marcus F. Cox, M.D., Houston, TX
David B. Dorofi, M.D., Charlottesville, VA
Neva T. Edens, M.D., Chapel Hill, NC
Dietrich A. Gerhardt, M.D., Iowa City, IA
Richard R. Gessner, M.D. and Sarah Y. Gessner, M.D., Charleston, SC
Patrick J. Gibbons, Jr., M.D., Richmond, VA
Gerard D. Henry, Jr., M.D., Durham, NC
Marcus T. Higi, M.D., Tallahassee, FL
John B. Holtzapple III, M.D., Eugene, OR
David K. Hutchinson, M.D., Greenville, NC
Richard H. Jones, M.D., FPO, AP
Jill R. Martin, Savannah, GA
John W. Ogle III, M.D., Palo Alto, CA
Nicklas B. Oldenburg, M.D., Cambridge, MA
Hiten K. Patel, M.D., Charlotte, NC
John B. Piecyk, M.D. and Monica L. Piecyk, M.D., Canton, MA
Elizabeth F. Rostan, M.D., Solana Beach, CA
Wesley G. Schooler, M.D., Durham, NC
David R. Shaffer, M.D., New York, NY
Dana L. Simpson, M.D., Charleston, SC
Amanda I. Slater, M.D., Pittsboro, NC
R. S. Spies, M.D., Matthews, NC
Jawal Suleman, M.D., West Columbia, SC
John W. Surles, M.D., Macclesfield, NC
Sharon A. Taft-Benz, Ph.D., Carrboro, NC
James A. Thompson, M.D. and Suzy S. Thompson, M.D., San Francisco, CA
Deidra E. Woods, M.D., Washington, DC

CLASS OF 1996
Number in Class: 157
Percent Donors: 20%
Clinton K. Atkinson, Jr., M.D., Greenville, NC
David K. Becker, M.D., Chapel Hill, NC
Ann-Bridget D. Bird, M.D., Baltimore, MD
Jason S. Burgess, M.D., Wrightsville Beach, NC
Margaret B. Collins Hill, M.D., Pittsboro, NC
William J. Conner, M.D., Asheville, NC
Lorraine D. Cornwell, M.D., Carrboro, NC
Laura A. Culp, M.D., Chapel Hill, NC
Robert M. Dums, M.D., Roanoke, VA
Cory A. Dunnick, M.D., Nashville, TN
Joan E. East, M.D., Asheville, NC
Victoria L. Garriett, M.D., Detroit, MI
Anne George, M.D., Newton, MA
Stacey S. Gilbert, M.D. and Shawn R. Gilbert, M.D., Durham, NC
Brian Earl Grogg, M.D. and Karen Lynne Grogg, M.D., Rochester, MN
James A. Haaksma, M.D., Asheville, NC
Julie A. Haizlip, M.D., Chapel Hill, NC
Kimberly J. Hamilton, M.D., Durham, NC
Ann E. Hiott, M.D., Raleigh, NC
Letitia P. Kinloch, M.D., Albuquerque, NM
E. Allen Liles, Jr., M.D., Durham, NC
Michael H. Lowry, M.D., Greenville, NC
John E. Milko, M.D., Ormond by the Sea, FL
Tracey E. O'Connell, M.D., Durham, NC
David N. Quinn, M.D., Columbus, OH
Lisa M. Roberts, M.D., Winston-Salem, NC
Jeffry P. Simko, M.D., Ph.D., San Francisco, CA
Carlos A. Vargas, M.D., Franklin, NC
Nathaniel F. Watson, M.D., Mercer Island, WA

CLASS OF 1997
Number in Class: 165
Percent Donors: 38%
Eyal C. Attar, M.D., Brookline, MA
Henry C. Baggett III, M.D., Baltimore, MD
Michael L. Batten, M.D., Philadelphia, PA
Kimberly L. Beavers, M.D., Chapel Hill, NC
George M. Brinson, M.D., Chapel Hill, NC
Debbie A. Brown, M.D., Southfield, MI
Michael B. Brumback, M.D., Decatur, GA
Mark D. Charlson, M.D., Chapel Hill, NC
Kathy N. Chism, M.D., Knoxville, TN
Elizabeth C. Clark, M.D., Portland, OR
Laura A. Clark-Windham, M.D., Durham, NC
Raymond D. Cook, M.D., Durham, NC
Nicole M. D'Andrea, M.D., Chapel Hill, NC
Lance L. Davis, M.D., Charleston, SC
Marta L. Derieg, M.D., Honolulu, HI
Charles S. Dietrich III, M.D., Aiea, HI
Vincent C. Smith, M.D., and Carrie A. Dow-Smith, M.D., Pearland, TX
Charles W. Eifrig, M.D., Miami Beach, FL
Janet R. Encarnacion, M.D., Springfield, MO
Thomas W. Gansman, M.D., Indianapolis, IN
Cathryn A. Geary, M.D., Seattle, WA
Chandra S. Ghosh, M.D., Atlanta, GA
Leigh B. Goodwin, M.D., Charlotte, NC
Todd F. Griffith, M.D., Elkridge, MD
Maura L. Hamrick, M.D., Hillsborough, NC
Richard W. Hudspeth, M.D., Cincinnati, OH
Andrew L. Katz, M.D., Durham, NC
Dawn E. Kleinman, M.D., Carrboro, NC
Jennifer S. Klenzak, M.D., Chapel Hill, NC
Eric T. Landis, M.D., Charlotte, NC
Jerome P. Lee, M.D., Honolulu, HI
Cindi J. Leech, M.D., Salt Lake City, UT
Nancy L. Linscott, M.D., Oakdale, MN
Erica A. Lyndrup, M.D., New York, NY
Angela B. Mebane, M.D., Falkland, NC
Dawson A. Mims III, M.D. and Susan R. Mims, M.D., Carrboro, NC
Dean S. Morrell, M.D., Chapel Hill, NC
T. Christopher Morris, M.D. and Krista S. Morris, M.D., Birmingham, AL
Amy L. Mosher, M.D., Chapel Hill, NC
Jeffrey S. Moyer, M.D., Ann Arbor, MI
Julia K. Nelson, M.D., Durham, NC
John Charles Parker, M.D. and Heather M. Henderson, M.D., Lexington, KY
Steven A. Paterno, M.D., Wexford, PA
Joseph F. Penta, M.D., FPO AP,
John K. Petty, M.D., Portland, OR
Sarah B. Philp, M.D., Seattle, WA
Jennifer E. Rhodes-Kropf, M.D., New York, NY
Austin S. Rose, M.D., Chapel Hill, NC
Sherene K. Shakib, M.D., St. Louis, MO
Vincent C. Smith, M.D. and Carrie A. Dow-Smith, M.D., Pearland, TX
Jennifer L. Smullen, M.D., New Orleans, LA
John R. Stephens, M.D. and Anne H. Stephens, M.D., Durham, NC
Amy M. Ursano, M.D., Durham, NC
Julie C. Verchick, M.D., Winston-Salem, NC
Lauren E. Wagner, M.D., Chicago, IL
Melanie P. Walker, M.D., Cincinnati, OH
Harry P. Weber, M.D., Charlottesville, VA
Christopher R. Williams, M.D., Birmingham, AL

CLASS OF 1998
Number in Class: 145
Percent Donors: 33%
E. Denise Absher, M.D., Lee's Summit, MO
Thomas E. Archie, Jr., M.D., Fort Collins, CO
Christopher W. Baird, M.D., Pittsburgh, PA
Elizabeth R. Bates, M.D., Berkeley, CA
Michelle W. Beckham, M.D., Concord, NC
Dalliah M. Black, M.D., Durham, NC
Stephen D. Brown, Jr., M.D., South Burlington, Vermont
Christopher C. Copenhaver, M.D. and Carol Anne Borack, M.D., Rochester, NY
Natalie G. Coburn, M.D., Providence, RI
Alan Cook, M.D., Durham, NC
Christopher C. Copenhaver, M.D. and Carol Anne Borack, M.D., Rochester, NY
Mary S. Crowder, M.D., Greenville, NC
Jason E. DeVente, M.D., Winterville, NC
Maxwell E. Fisher, M.D., Nashville, TN
Angela B. Gantt-Holliday, M.D., Dublin, OH
Jumana C. Giragos, M.D., Northampton, MA
Amy L. Gockerman, M.D., Cincinnati, OH
Nichole D. Grier, M.D., Chapel Hill, NC
Paul M. Henderson, M.D., Hendersonville, NC
Michael S. Hoben, M.D., Charlotte, NC
Travis C. Honeycutt, M.D., Carrboro, NC
Darius Kaveh Amjadi II, M.D., and Shannon E. Hunter, M.D., Durham, NC
Traci E. Irwin, M.D., New Orleans, LA
Joseph T. Jenkins, M.D., Chapel Hill, NC
Robert Christopher Miller, M.D., Wexford, PA
James M. O'Barr Culver, M.D., Durham, NC
Robert S. Park, M.D., San Francisco, CA
Stephen J. Phillips, M.D., Durham, NC
William G. Pittman III, M.D., San Francisco, CA

Members of the Class of '55 are all smiles at the Fall Medical Alumni Weekend pig pickin'. From left are Ralph Brooks, Charles Herring, Adrian Lineberger and Will London.

Jason Brian Rothschild, M.D. and Yadira Hurley Rothschild, M.D., St. Louis, MO
James M. Schmidt, M.D., Charlotte, NC
Brian Shelley, M.D., Albuquerque, NM
William M. Sherrod, M.D., Augusta, GA
Amy B. Stanfield, M.D., Charlotte, NC
Thomas E. Stephens, M.D., Asheville, NC
William H. Sturgill III, M.D., Bethesda, MD
Candace M. Summerford, M.D., Chapel Hill, NC
Andrew J. Taylor, M.D., Wrightsville Beach, NC
Stephan G. Thiede, M.D., Chapel Hill, NC
Michael M. Walger, M.D., Loma Linda, CA
Anthea Wang, M.D., Chapel Hill, NC
James E. West, M.D., Greensboro, NC
Alexandra T. Whoriskey, M.D., Boston, MA
T. Brian Willard, M.D., Columbia, MO
Robyn K. Zanard, M.D., Greensboro, NC
Adam J. Zolotor, M.D. and Karolyn Forbes, M.D., Ann Arbor, MI

CLASS OF 1999
Number in Class: 162
Percent Donors: 2%
Ellen M. Flanagan, M.D., Chapel Hill, NC
Winny W. L. Hung, M.D., Providence, RI
Melissa L. Lambert, M.D., Nashville, TN
L. Allison Shivers, M.D., Nashville, TN

CLASS OF 2000
Joshua W. Knowles, Chapel Hill, NC

MEDICAL ALLIED HEALTH SCIENCES GRADUATES
Emily S. Barrow, Chapel Hill, NC
Kathleen J. Berglund, Kalamazoo, MI
Pamela M. Bimbo, Asheboro, NC
Cynthia P. Bodenheimer, Winston-Salem, NC
Christa J. Copeland, Houston, TX
Tony L. Gilliam, Cary, NC
Sheila R. McMahon, Raleigh, NC
Cheryl E. Miller, Alpharetta, GA
Emily E. Tyson, Dexter, MI
Christina C. Watson, Sumter, SC

BASIC SCIENCES
Nils B. Adey, Ph.D., Salt Lake City, UT
Caroline H. Aland, Stevensville, MD
Mary M. Bledsoe Felkner, M.D., Charlotte, NC
Timothy J. Bolling, Wilmington, DE
Katherine C. Bondi, Charlotte, NC
Carl D. Bortner, Ph.D., Durham, NC
Aziz A. Boxwala, Boston, MA
Lynn Ann Bristol, Baltimore, MD
Jason T. Bundy, Chapel Hill, NC
Margot G. Butchart, Ormond Beach, FL
Caryl P. Carley, Colorado Springs, CO
Chia S. Chang, New Hyde Park, NY
Kathryn K. Cheek, Columbus, GA
Jae Y. Choe, Ph.D., Willowbrook, IL
David N. Collier, Ph.D., Greenville, NC
G. Ray Collins, Rocky Mount, NC
Timothy W. Corrigan, Charlotte, NC
Victoria Z. Coward, Jacksonville, FL
Merle M. Crawford, Hummelstown, PA
Kimberly C. Daeke, Raleigh, NC
Dorothy L. Daley, Wilmington, DE
Sharyn H. Davies, Little Rock, AR
Roberta DeLuca, Raleigh, NC
Cherry R. Dula, Lenoir, NC
Bruce W. Ennis, Ph.D., Gages Lake, IL
Debra R. Ernst, West Bloomfield, MI
Florine D. Everton, Greensboro, NC
Madeline H. Freeman, Greenville, SC
Dennis E. Freer, Ph.D., Fairview, NC
Katherine L. Fries, Ph.D., Atlanta, GA
Caroline Gamble, Winston-Salem, NC
Andrea J. Gonzales, Ph.D., Pinckney, MI
Jay J. Greenblatt, Ph.D., Germantown, MD
Robert P. Gruninger, Chapel Hill, NC
William T. Hammer, Indianapolis, IN
Janet L. Harrill, Forest City, NC
Marcia W. Herbert, Virginia Beach, VA
Melany A. Higgins, M.D., Clayton, NC
Edna D. Hodges, Washington, NC

At the fall Medical Alumni Weekend, there are plenty of smiles to go around. From left are James Coxe, Robin Coxe, Jim Coxe, MD '71, Judy LeGrand and Gordon LeGrand, MD, '65, president of the Medical Alumni Association.

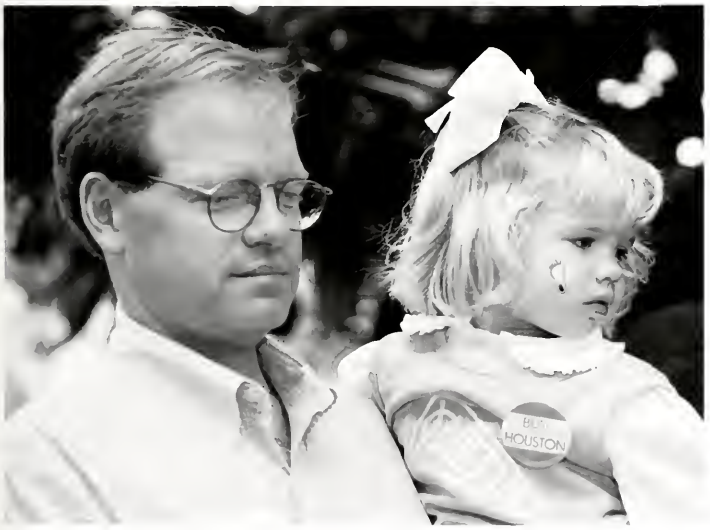
Beverly N. Jones III, M.D., Winston-Salem, NC
Jane E. Jordan, The Woodlands, TX
Steven W. King, Ph.D., Florence, SC
Susan A. Klemm, Charlotte, NC
Lauree M. Kruyer, Southern Pines, NC
Bob Lerch, Spring Valley, NY
Scott C. Livingston, Erie, PA
Harriett B. Loehne, Winston-Salem, NC
Michael A. Lynes, Ph.D., West Willington, CT
Earl E. Macy, West Plains, MO
Melissa Maret, Ph.D., Yardley, PA
Sally A. Maser, Philadelphia, PA
Marc J. Mass, Ph.D., Durham, NC
Stanley K. Mauldin, Ph.D., King of Prussia, PA
Celia C. McCarty, Alpharetta, GA
Daniel S. McGehee, Ph.D., Chicago, IL
Jona P. Medlin, Raleigh, NC
Robert E. Moon, Fort Lauderdale, FL
Susan H. Moore, Raleigh, NC
Lynda S. Morrison, Henderson, KY
Virginia W. Morton, Houston, TX
Sarah M. Mosier, Chapel Hill, NC
Barbara J. Muller-Borer, M.D., Elon College, NC
Chiquita L. Pearson, Roswell, GA
Christopher A. Pennell, Ph.D., Mendota Heights, MN
Marguerite G. Pennington, Goldsboro, NC
Gary E. Prillaman, M.D., Mocksville, NC
Jane K. Pritchard, Tulsa, OK
Emily A. Rantzos, Asheville, NC
Tamara R. Ritchie, Durham, NC
Joelle M. Roberson, Williamsville, NY
Richard W. Scearce, Jr., M.D., Durham, NC
Ralph O. Sconce, Jr., Woodbridge, VA
Susan S. Skeen, Elon College, NC
Phillip G. Smith, Durham, NC
Susan J. Smith, Newton, NC
Mary Dee A. Smith, Charlotte, NC
Jennifer V. Smith, Ph.D., Malvern, PA
Martha L. Soyars, Richmond, VA
Sara J. Stitzer, Richmond, VA
Wanda Storch, Stella, NC
Jean L. Stout, Saint Paul, MN
Pamela Perry Stubbs, Fallbrook, CA
Laura I. Tanner, Ph.D., San Francisco, CA
Grace S. Tucker, Deison, TX
Elizabeth E. Via, Winston-Salem, NC
Cheryl H. Whelan, Louisville, KY
Elizabeth C. Wilkinson, Youngsville, NC
Amy L. Winham, Wake Forest, NC
Barnaby E. Wray, Durham, NC

FACULTY
Larry W. Arnold, M.D., Snow Camp, NC
Stephen R. Aylward, Ph.D., Carrboro, NC
Christopher C. Baker, M.D., Chapel Hill, NC
Ms. Deborah Bender, Chapel Hill, NC
Stuart O. Bondurant, Jr., M.D., Chapel Hill, NC
Gary D. Bos, M.D., Chapel Hill, NC
Watson A. Bowes, Jr., M.D., Chapel Hill, NC
H. Robert Brashear, Jr., M.D., Chapel Hill, NC
Dr. R. Alan and Mrs. Irene Briggaman, Chapel Hill, NC
Robert C. Brownlee, M.D., Chapel Hill, NC
James A. Bryan II, M.D., Chapel Hill, NC
John B. Buse, Chapel Hill, NC
Robert C. Cefalo, M.D., Chapel Hill, NC
Richard L. Clark, M.D., Chapel Hill, NC
Ernest Craige, M.D., Chapel Hill, NC
George W. Crane, M.D., Durham, NC
William J. Cromartie, M.D., Chapel Hill, NC
Robert E. Cross, Ph.D., Durham, NC
J. Charles Daw, Ph.D., Chapel Hill, NC
Floyd W. Denny, Jr., M.D., Chapel Hill, NC
Robert F. Devellis, Ph.D., Chapel Hill, NC
Thomas M. Egan, M.D., Chapel Hill, NC
Joseph J. Eron, Jr., M.D., Chapel Hill, NC
Paul B. Farel, Ph.D., Chapel Hill, NC
Charles G. Foskey, Chapel Hill, NC
Eric C. Frey, Ph.D., Durham, NC
Robert N. Golden, M.D. and Shannon C. Kenney, M.D., Chapel Hill, NC
Ian S. Grimm, M.D., Chapel Hill, NC
Joseph W. Hall, M.D., Durham, NC
William D. Heizer, M.D., Chapel Hill, NC
Walter Hollander, Jr., M.D., Chapel Hill, NC
Jeffrey L. Houpt, M.D., Chapel Hill, NC
Jaroslav F. Hulka, M.D., Chapel Hill, NC
David G. Kaufman, M.D., Ph.D., Chapel Hill, NC
Scott S. Kelley, M.D., Chapel Hill, NC
Ernest N. Kraybill, M.D., Chapel Hill, NC
Michael Y. Lee, M.D., Chapel Hill, NC
H. R. Lesesne, M.D., Chapel Hill, NC
Kenneth J. Levin, M.D., Chapel Hill, NC
Carol N. Lucas, Ph.D., Chapel Hill, NC
Elizabeth S. Mann, M.D., Chapel Hill, NC
Evelyn B. McCarthy, Ph.D., Chapel Hill, NC
Anthony A. Meyer, M.D., Chapel Hill, NC
Don K. Nakayama, M.D., Raleigh, NC
Christian E. Newcomer, Chapel Hill, NC
Terry L. Noah, M.D., Carrboro, NC
David A. Ontjes, M.D., Chapel Hill, NC
Edward R. Perl, M.D., Chapel Hill, NC
David R. Perry, Chapel Hill, NC
William S. Pollitzer, Chapel Hill, NC
Arthur J. Prange, Jr., M.D., Chapel Hill, NC
Kenneth G. Reeb, M.D., Chapel Hill, NC
Desmond K. Runyan,M.D., Chapel Hill, NC

Robert S. Sandler, M.D., Chapel Hill, NC
John T. Sessions, Jr., M.D., Chapel Hill, NC
Nicholas J. Shaheen, Durham, NC
Brian C. Stabler, Ph.D., Chapel Hill, NC
John F. Steege, M.D., Chapel Hill, NC
Stuart Teplin, M.D., Chapel Hill, NC
Colin G. Thomas, Jr., M.D., Chapel Hill, NC
Charles M. Van Der Horst, M.D., Chapel Hill, NC
Leslie A. Walton, M.D., Durham, NC
Bernard E. Weissman, Durham, NC
Clayton E. Wheeler, Jr., M.D., Chapel Hill, NC
Frank C. Wilson, M.D., Chapel Hill, NC
John B. Winfield, M.D., Chapel Hill, NC
Richard V. Wolfenden, Ph.D., Chapel Hill, NC
James R. Yankaskas, M.D. and Bonnie C. Yankaskas Ph.D., MPH, Chapel Hill, NC

HOUSE STAFF
Richard C. Andringa, M.D., Greensboro, NC
William E. Anspach III, M.D., Stuart, FL
James W. Asaph, M.D., Portland, OR
David E. Ballard, M.D., Albuquerque, NM
A. John Bambara, M.D., Bridgewater, NJ
Thomas M. Bashore, M.D., Durham, NC
Robert S. Boger, M.D., Brookfield, CT
Jeffrey P. Bomze, M.D., Wynnewood, PA
Thomas A. Brackbill, M.D., Greensboro, NC
Russell G. Brown, M.D., Santa Fe, NM
George F. Brumback, M.D., Greensboro, NC
Edwin L. Bryan, M.D., Greensboro, NC
Steven Bujenovic, M.D., Baton Rouge, LA
William R. Bullock, M.D., Charlotte, NC
Holly J. Burge, M.D. and Steven J. Stafford, M.D., Raleigh, NC
William A. Burke, M.D., Greenville, NC
William Tom Callahan, M.D., Gainesville, GA
Robert L. Carithers, Jr., M.D., Seattle, WA
Allen E. Cato, Jr., M.D., Durham, NC
G. Rayburn Cheely, M.D., Raleigh, NC
Jack C. Childers, Jr., M.D., Lutherville, MD
Ponjola Coney, M.D., Springfield, IL
Thomas P. Cornwall, M.D., Durham, NC
Stanley C. Cox III, M.D., Southern Pines, NC
Earl H. Crumpler, Jr., M.D., Raleigh, NC
John T. Curnes, M.D., Greensboro, NC
Frederic G. Dalldorf, M.D. and Joanna S. Dalldorf, M.D., Chapel Hill, NC
Catherine A. Daum, M.D., Wilmington, NC
Donald G. Detweiler, M.D., Raleigh, NC
Diane M. Duffy, M.D., Gibsonville, NC
Charles E. Frederick, M.D., Greensboro, NC
Guiliana G. Gage, M.D., Raleigh, NC
Daniel Gottovi, M.D., Wilmington, NC
JoAnne Gutliph, M.D., Gainesville, VA
Frank J. Haraf, M.D., Louisville, TN
Carl R. Hartrampf, Jr., M.D., Atlanta, GA
Marie Hayes, M.D., Tallahassee, FL
D. Allen Hayes, M.D., Raleigh, NC
Glenn B. Hays, M.D., North Fort Myers, FL
R. Phillips Heine, M.D., Wexford, PA
Xaver F. Hertle, M.D., Greensboro, NC
Frank S. Highley, M.D., Charlotte, NC
Windsor A. Holt, M.D., Raleigh, NC
Robert R. Huntley, M.D. and Joan C. Huntley, Ph.D., Chapel Hill, NC
Ali Jarrahi, M.D., Winston-Salem, NC
Patrick L. Jasper, M.D., Somerset, KY
J. Jeff Johnson, M.D., Paducah, KY
F. Douglas Jones, M.D., Greenville, NC
Hisashi Kajikuri, M.D., Monterey, CA
Lee Kasik, M.D., Greensboro, NC
Jeffrey D. Katz, M.D., Greensboro, NC
William D. Kerr, Jr., M.D., Winnetka, IL
Jeffrey K. Kobs, M.D., Raleigh, NC
Jonathan S. Krauss, M.D., Augusta, GA
Suzanne E. Landis, M.D. and William R. McKenna, M.D., Asheville, NC
Randolph L. Lee, M.D., Apex, NC
Amy A. Levine, M.D., Chapel Hill, NC
John R. Lina, M.D., Southern Pines, NC
Mary D. Livingston, M.D., Fort Worth, TX
H. Raymond Madry, Jr., M.D., Raleigh, NC
Bruce T. Malenbaum, M.D., Durham, NC
G. Philip Manire, Ph.D., Chapel Hill, NC
John P. Manzella, M.D., York, PA
Peter J. Massicott, M.D., Boston, MA
James G. McClure, M.D., Memphis, TN
W. Benson McCutcheon, Jr., M.D., Durham NC
Morton Meltzer, M.D., Cameron, NC
Steven L. Mendelsohn, M.D., Asheville, NC
Elizabeth G. Monahan, M.D., Durham, NC
James A. Mong, M.D., Raleigh, NC
James J. Murphy, M.D., Arden, NC
Albert J. Naftel, Jr., M.D., Chapel Hill, NC
Keith A. Nance, M.D., Raleigh, NC
Richard A. Niles, M.D., Lynchburg, VA
John W. Oglesby, M.D., Nashville, TN
Frederick H. Opper, M.D., Wilmington, NC
Louis V. Pacilio, M.D., Leeds, MA
Wanda K. Panosh, M.D., Greensboro, NC
Joseph F. Patterson, Jr., M.D., Chapel Hill, NC
Theodore A. Petti, M.D., Indianapolis, IN
Brian K. Phelan, M.D., Augusta, GA
George H. Pierson, Jr., M.D., Greensboro, NC
Cedric W. Porter, Jr., M.D., Asheville, NC
Mark A. Powers, M.D., Chapel Hill, NC
Rupa C. Redding-Lallinger, M.D., Chapel Hill, NC
Hal J. Rollins, Jr., M.D., Greensboro, NC
Roland E. Schmidt, M.D., Chapel Hill, NC
Michael S. Schur, M.D., Satellite Beach, FL
Stephen B. Schuster, M.D., Greenshoro, NC
Michael C. Sharp, M.D., Chapel Hill, NC
Brian C. Shiro, M.D., Wilmington, NC
Stephanie A. Skolik, M.D., Huntington, WV
Liang Y. Soo, M.D. and Dixie L. Soo, M.D., Chapel Hill, NC
Ernest B. Spangler, Jr., M.D., Greensboro, NC
Errol R. Springer, M.D., Appleton, WI
J. Gregory Staffel, M.D., Memphis, TN
Steven J. Stafford, M.D. and Holly J. Burge, M.D., Raleigh, NC
Thomas M. Swantkowski, M.D., Southern Pines, NC
Charlotte A. Sweeney, M.D., Raleigh, NC
Robert V. Sypher, Jr., M.D., Greensboro, NC
John M. Thorp, Jr., M.D., Chapel Hill, NC
William B. Veazey, M.D., Greensboro, NC
Peter A. Wallenborn III, M.D., Asheville, NC
Charles E. Welander, M.D., Richmond, VA
Steven R. Wells, M.D., Cary, NC
Murray Whitaker, M.D., Vicksburg, MS
Kenneth S. White, M.D., Wilmington, NC
Charles F. Willson, M.D., Greenville, NC
George T. Wolff, M.D., Greensboro, NC
H. Linton Wray, M.D., Chevy Chase, MD
William G. Wysor, Jr., M.D., Chapel Hill, NC
Christopher Yeakel, M.D., Columbia, SC
Nakhleh P. Zarzar, M.D., Raleigh, NC
Mary Ellen Zelenik, M.D., Clifton Forge, VA
Thomas A. Zirker, M.D., Greensboro, NC

Ph.D. GRADUATES
Linda M. Boland, Ph.D., Woodbury, MN
Philip Brooks, Ph.D., Bethesda, MD
Stephen W. Burgess, Ph.D., Montevallo, AL
David S. Leslie, M.D. and Lu-Ann M. Caron-Leslie, Ph.D., Wellesley, MA
Laurie B. Connell, Ph.D., Seattle, WA
Nancy M. Davidian, Ph.D., Bethesda, MD
Haroutune Dekirmenjian, Ph.D., Knoxville, TN
Lori Ann Dostal, Ph.D., Brighton, MI
James C. W. Finley, Ph.D., Cleveland, OH
Daniel N. Hooker, Ph.D., Chapel Hill, NC
Beatrice Hughes-Werner, Ph.D., Chapel Hill, NC
Jim D. Karam, Ph.D., New Orleans, LA
Warren M. Kati, Ph.D., Gurnee, IL
Michael J. Lelivelt, Ph.D., Sun Praire, WI
Frank S. Menniti, Ph.D., Mystic, CT
Thomas K. Miller III, Ph.D., Raleigh, NC
Bonnie B. Punske, Ph.D., Sandy, UT
Marjorie S. Read, Ph.D., Durham, NC
Robert A. Schwartzman, Ph.D., Gaithersburg, MD
Drusilla L. Scott, Ph.D., Ann Arbor, MI
Corinne M. Silva, Ph.D., Charlottesville, VA
Charles J. Viviano, Ph.D., Beacon Falls, CT



Go Heels!

President's Letter

Fellow Alumni,

Greetings from your Alumni Association. It was a pleasure to see those of you who came to the fall meeting in October. A special surprise was seeing John Shinn who came all the way from San Jose, Ca.

There were many favorable comments about the Friday CME program. The Friday night Loyalty Fund dinner recognized a new category of 10-year Associates — of which there were an impressive number. Even though it was fall break time (an opportunity we old-timers never enjoyed) there was a good turn out of the 51 students who are beneficiaries of merit and need-based scholarships and grants funded by your association through Loyalty Fund gifts.

The General Council meeting Saturday morning featured a stimulating and challenging overview of the state of the school by Dean Houpt. He indicated that the freshman class' academic credentials, including MCAT scores and GPAs have increased.

Students now must pass Part I of the National Boards before advancing to the clinical years. And the School of Medicine has eliminated the low pass grade. These moves should ensure quality in the academic program and product of the school.

A presentation by Dean Houpt and Ann Griffin of the master plan for the University as it effects the medical school reflects the vision, ambition and optimism of the school's leadership. The first five years call for the construction of six new buildings at a cost of over $200 million and renovations and deferred maintenance totaling about $50 million. A project that should appeal to many alumni is a proposed plan to extend the research wing of MacNider Hall, making it symmetrical, with a recreation of the original façade now obscured by the Health Sciences Library. Dean Houpt asked for suggestions for potential donors.

With the failure of the legislature to pass the bond issue for UNC this summer, funding for these projects is problematic. Internally generated funds can cover only a fraction of the cost.

Following the Council meeting, steering committees for the various reunion classes met to discuss plans for spring reunions. Please mark your calendars for May 5-6, 2000, and plan to join your fellow alumni for a glorious spring weekend in Chapel Hill.

If you have not already made your annual gift to the Loyalty Fund please do so now. Many important student, faculty and alumni programs rely on our continued support. A listing of last year's donors is included in this issue. Please plan on seeing your name on this list every year. A return envelope is enclosed for your convenience.

I extend my personal gratitude to all who participate in our annual Loyalty Fund campaign.

Gordon B LeGrand

Gordon B. LeGrand, MD '65

CME/Alumni Calendar

December 3-4, 1999 — Chapel Hill

New Developments in Vascular Surgery: 9th Annual Conference

January 13-14, 2000 — Chapel Hill

Challenges in Geriatric Practice: 11th Annual Conference

February 3-4, 2000 — Greensboro

Substance Abuse Conference

February 3-5, 2000 — Cary

9th Annual Literacy Symposium

February 9-11, 2000 – Chapel Hill

TEACCH Winter Inservice

February 28, 2000 – Chapel Hill

HIV Care 2000

March 24-26, 2000 – Chapel Hill

Herbal Medicine Conference

For more information about CME courses, contact the Office of Continuing Medical Education, (919) 962-2118, or toll-free through the Consultation Center, (800) 862-6264. To contact the Alumni Affairs office, call (919) 962-6786 or e-mail medical_alumni@med.unc.edu.

Estate Planning Notice

Many individuals would like to make a major gift to the UNC medical center, but cannot commit current assets for such a purpose. Through a will, however, anyone can make a more significant gift than they might ever have thought possible by designating a specific sum, a percentage, or the residue of their estate for the benefit of the medical center.

To provide a bequest, simply include a paragraph in your will naming The Medical Foundation of North Carolina, Inc. as a beneficiary. For example:

"I give, devise and bequeath (the sum of $_____) or (_____ % of my estate) or (the residue of my estate) to The Medical Foundation of North Carolina, Inc., a 501(C)(3) created to maintain funds for the UNC medical center with principal offices located at 880 Airport Road, Chapel Hill, North Carolina."

This language creates an unrestricted bequest for use by the medical center when and where the need is greatest, or you may specify that your gift be used for a particular purpose.

For further information on bequests, contact Jane McNeer at (919) 966-1201, (800) 962-2543, or jmcneer@email.unc.edu.

Nonprofit Organization
U.S. Postage
PAID
Chapel Hill, NC
Permit No. 24

PERIODICALS DEPARTMENT
HEALTH SCIENCES LIBRARY
CB 7585
CAROLINA CAMPUS 7585